

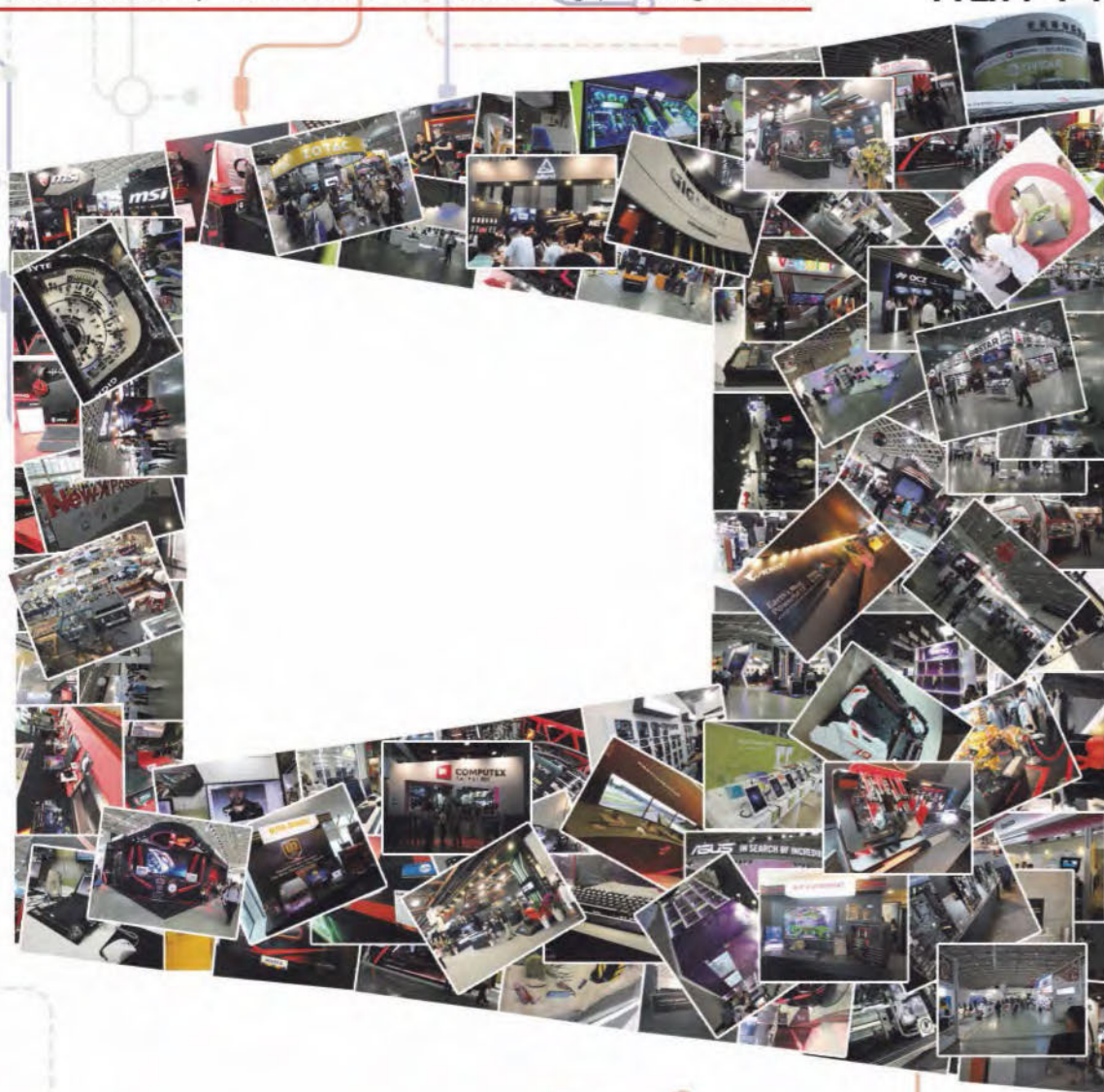
# CHIP

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## COMPUTEX TAIPEI 2015

We Went, We Saw, We Walked  
Coverage of Asia's biggest IT trade show is right inside

**PLUS:** We reviewed NVIDIA's GTX 980 Ti, ASUS's AMD R7 370 STRIX, HTC M9+ and Xiaomi's Mi4i

ISSN 1675-0322



KDN PP11642/02/2013  
(031617)



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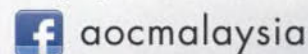
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# Taipei Tech

Visiting Taipei has always been a joy for me, as the country is very much Japan-lite. With efficient transportation, great local food and friendly people - no wonder many IT companies

elect to start their business there. Companies like MSI, Cooler Master, ASUS, Acer and so many others have set up base in Taiwan, and from there, conquered the world with their brand of technology.

We travelled to Taipei to check out this year's edition of COMPUTEX, where companies from around the world gather and congregate to showcase their latest product and technology to the world, and of course we were on ground to check out those technologies ourselves. Read about them in

our COMPUTEX coverage, starting from page 59.

For those who are into creating small computers, check out our take on the Raspberry Pi2. We also have something special this month, as we review both the NVIDIA GTX 980 Ti and AMD's R7 370 in our labs, the latter courtesy of ASUS. 4K games should check out the reviews. Plus, two different ends of the spectrum for what constitutes a complete desktop is in our labs - Acer's Revo, and ASUS's GR6. Which one is your choice of computing device?

As the big gaming trade show E3 just passed us by, we have taken over the Lite & Leisure section to bring you a coverage on what's the latest in the gaming world, straight from E3. Many of the games that we feature will be coming either this year or next, so which one will be the one that you purchase and pour your energy into for completion?

Thanks for reading, and have a great day ahead.

## ERRATA:

In May, we ran a Cisco byline article titled 'Securing Internet of Things', but we neglected to affix a byline in the article itself.

The article should have read as: 'Securing Internet of Things, by Albert Chai, Country Manager for Cisco Malaysia'.

We regret on the error.

**Sharil Abdul Rahman**



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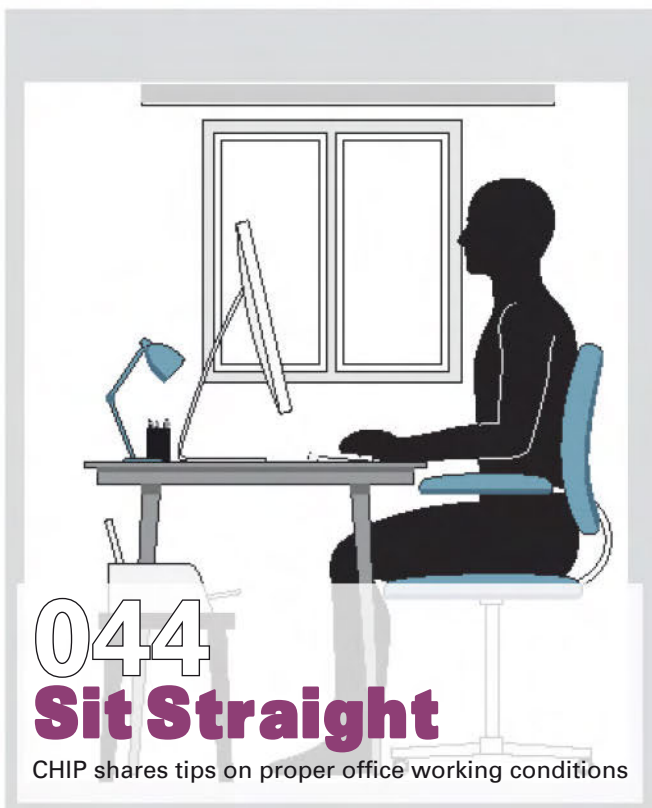


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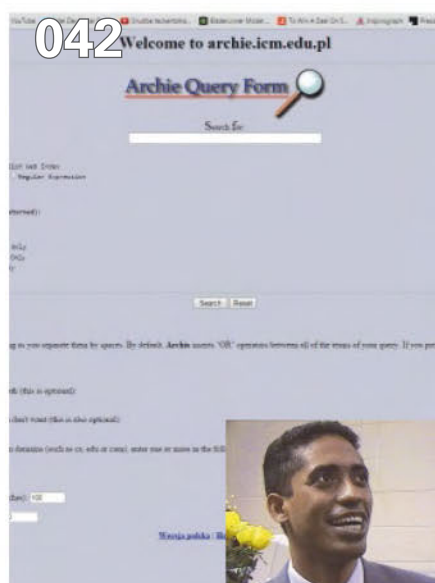
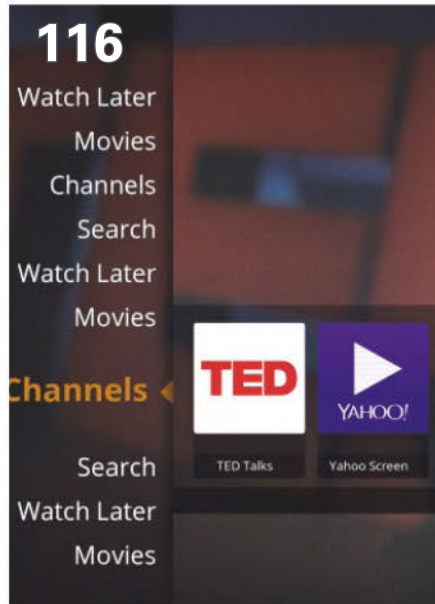


Ukraine









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She shares with us on why child seats are important

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After E3, there was a ton of new announcements on what games goes to which systems. We have a run down on titles that we think you need to check and not miss out on

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# CHIP Downloads

We're back with our monthly dose of interesting, free and handy tools for you to enhance your PC experience. If you want to know how you can get these files, follow the instructions below:

1. Head on our website @ [www.chip.com.my](http://www.chip.com.my) and right at the top, click on the "Downloads" tab
2. After that, click on the respective month's post. You will then be prompted for a password. The password can be found on this page monthly.
3. Navigate using the tabs and pick the categories you want to download the files from. Once you find the file you want, just click on it and you're good to go!

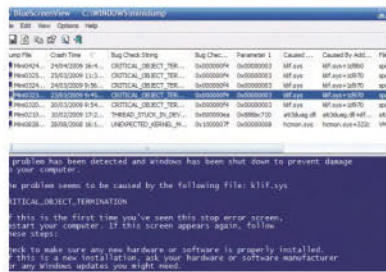
And it's as easy as that!

**PASSWORD FOR JULY 2015 - HighBandwidth**

## Featured Tools

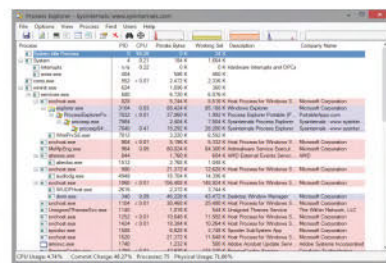
### BlueScreen View

BlueScreenView scans all your minidump files created during 'blue screen of death' crashes, and displays the information about all crashes in one table. For each crash, BlueScreenView displays the minidump filename, the date/time of the crash, the basic crash information displayed in the blue screen (Bug Check Code and 4 parameters), and the details of the driver or module that possibly caused the crash (filename, product name, file description, and file version).



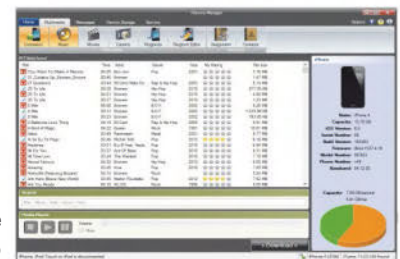
### Process Explorer

Process Explorer is a helpful utility program that details your computer's running processes in a more visual representation than the standard Windows Task Manager. A host of smart tools and design options are provided with this program, but some technical errors are likely to inhibit Process Explorer's abilities.



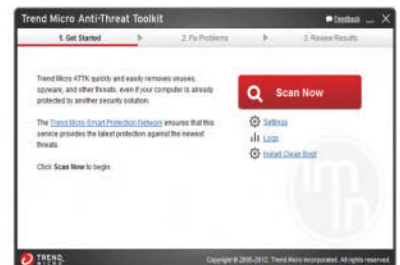
### iDevice Manager

The program offers access to the device file system, creates own ringtones from MP3, displays SMS messages, playing music and much more useful functions. With the iDevice Manager you can look into the file system of your iPhone, iPad and iPod Touch, and proceed to download- and upload files by USB connection, regardless of file format. Within this function can use your iPhone/iPad/iPod as "external disk".



### FakeAV Removal Tool

Fake Antivirus (FakeAV) has been common over the last few years, and the various types of FakeAV has infected millions of PCs and are continuing to spread at a world wide scale. The FakeAV Removal Tool works for Windows XP, Vista, 7 and 8 for both 32 and 64 bits. This application features enhanced correlation for detection and it supports x64 process scanning.



## Essentials

Our list of essentials consists of programs and software such as graphic drivers, browsers, compression software and even Cloud storage software that will improve a PC user's experience. The links on our website won't provide you with the files, instead it will lead you to the developers' official website, where you can find the right file for you.





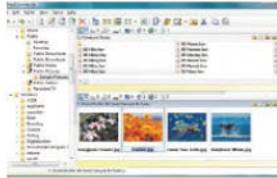
# July 2015

## The Monthly Ten

### FreeCommander XE 2015

**Operating system:** Win XP/Vista/7/8

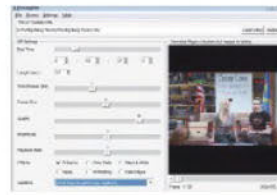
One of the best tools for Explorer alts is FreeCommander. The free software has multiple features to keep your files safe and sound. With the help of the two-window view, you can copy or move not only your files or folders from one drive to another, but also rename files in a jiffy.



### Instagriffer 1.58

**Operating system:** Win XP/Vista/7/8

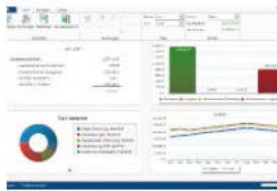
Publicizing short clips in GIF format is a true internet phenomenon. With Instagriffer, make very easy animated GIFs from video files on your own! After the start, opt for a file of AVI, MKV or MP4 types from your fundus and adjust the details. Click on "Create GIF" and the process will start.



### Finance Manager V8

**Operating system:** Win XP/Vista/7/8

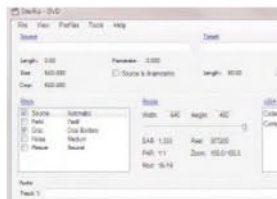
Finance manager V8 is one of the most popular free programs in the field of finance management. Thanks to the tool, you can have an overview of your assets and have control over your money. You create entries and can create templates for recurring processes. The current status is displayed in the graph.



### StaxRip

**Operating system:** Win XP/Vista/7/8

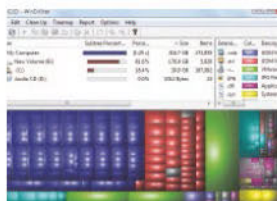
In the last few years, the MP4 format has developed itself as a standard for the playback of video contents. This is especially because of an almost perfect ratio between file size and image quality. StaxRip converts the different video files to MP4 files and carry out individual settings.



### WinDirStat

**Operating system:** Win XP/Vista/7

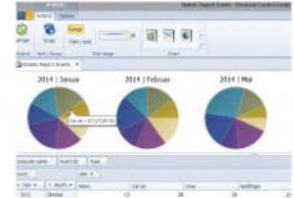
Images, music, videos and software makes the disk space quickly runs short and directly on a SSD. The slim WinDirStat tool helps you to keep the overview of your hard disks and their layout always. You will clearly see the amount of space occupied by each software and most of all, how much space is still available to you.



### DriveLock 7.5 Privatefree

**Operating system:** Win XP/Vista/7/8

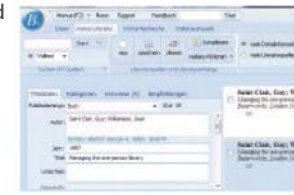
Besides the encryption of local folders and the files, you can use DriveLock for cloud storages like Dropbox or GoogleDrive. For example, at the start of the program, you shall decide the cloud type with which the tool should link to and which folder should be protected.



### Bibliographix

**Operating system:** Win XP/Vista/7/8

Do you often work with literature and fear losing your overview? If yes, then you should use Bibliographix immediately. The software supports you for organising your search results and ideas. The tool enables you to not only manage literature, but also use it immediately and productively thanks to the integrated MindMap.



### HeavyLoad

**Operating system:** Win XP/Vista/7/8

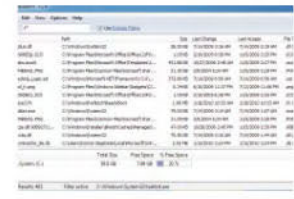
Regardless of CPU, hard disk or graphic card. The HeavyLoad software tests your system under full load and by doing so, you will detect if there is an existing crash hazard. Under "Test methods", select the process and click on "Play" symbol to investigate your system. Stop the process by clicking on "Stop".



### UltraSearch

**Operating system:** Win XP/Vista/7/8

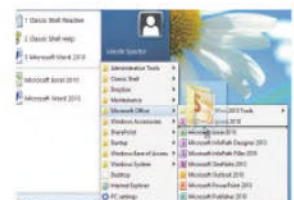
You may not always be lucky to find the integrated search function of Windows which you need. Let UltraSearch assist you for search enquiries in the future. The software traces files or file types quickly and reliably, by accessing the Master File Table and reading the appropriate information here.



### Classic Shell 4.2.1

**Operating system:** Win XP/Vista/7/8

Thanks to Classic Shell, you can recover the classic start menu under Win8 and 10. Besides other languages, the update contains even new skins. The main focus lies on the improved support of Windows 10.



# Letters

## Letter of the Month



Kingston UHS-I U3 SD Card 16GB

## Keeping Your Laptop Clean

Dear CHIP,

The June issue of the magazine came just in time as I was having some performance issues with my notebook PC as it has become sluggish, quite likely due to it being a bit old. I'm always a bit wary about opening up my laptop as I'm afraid that the small parts, especially the screws will get lost, and not to mention that dismantling a laptop can be a bit of a delicate process.

But thanks to your guide, I'm a bit more confident in at least opening it up to blow away all the dust and such. Maybe in the future, I'll also be able to replace any components that need replacing on my own.

Your software guide to cleaning up the hard drive to improve the performance of a computer is also highly appreciated, as after all these while I wasn't aware that there are a lot of temporary files that are actually eating up a lot of space in my PC. Having cleared several gigabytes of data, including malware and such, and coupled with clearing my laptop's fans of dust, I've seen marked improvements on my laptop's performance. Thanks CHIP for the tips!

Charles

Dear Charles,

Even for us at CHIP, dismantling a laptop can be quite unnerving due to reasons you mentioned above. Another tip we can give you before you start dismantling your notebook is to take a picture of what your laptop looks like at every stage of the dismantling process. This will save you a lot of time as you won't have to figure out too long what goes where as you'll have a visual guide to help you out.

Cleaning out your hard drive (mechanical or SSD) is also important in ensuring that your notebook runs smoothly as

*digital cobwebs are just as guilty of dust when it comes to reduced computing performance. We're definitely glad that our guide has proven useful to you, and gave you that small push to get you to tinker with your notebook.*

## Welcome To A Virtual World

Dear CHIP,

Your article on virtual reality devices have truly piqued my interest in how fast the technology is ramping up, what with a number of companies already on board, developing devices of their own to leverage powerful current and future-gen graphics technology to add simulation and enhance immersion for games and such. I'm particularly looking forward to what Oculus and Valve have to offer as these two companies look like they're on the cutting edge of VR simulation right now.

David Tan

Dear David,

Virtual reality is definitely the next evolution in visual technology, and we agree that it's some pretty exciting stuff. The concept is hardly a new one as it's already been introduced so many years ago, but was abandoned because computational power wasn't all that great back then. Now, however both computational and graphics technology have advanced to the point where it's feasible to go back to the concept and see what we can do with it.

For now, the application for VR headsets may be limited to just gaming, but who knows in the future it'll be the way to do video conferencing, holographs and more.

## Variety Is Always A Good Thing

Dear CHIP,

I read with great interest last month's issue, and saw that to my surprise, you guys did a Tech Spelunk feature on the new BMW i8 car. This is fairly intriguing because all this while, Tech Spelunk has been mostly a feature about computer products, smartphones and the like.

I definitely enjoyed reading about the i8's variety of features and specifications, and would love it if you guys did more of the same in the coming months. Features of computer products are great and all, but a little variety is always welcome.

Salim

Dear Salim,

We're glad that you enjoyed our Tech Spelunk feature on the BMW i8. It indeed is an amazing car, though shame about that bank-breaking price tag. That being said, we're definitely looking to spread out our reach a bit more than just laptops and phones, so do look forward to more similar Tech Spelunk articles in the near future!

Write to us at [letters@chip.com.my](mailto:letters@chip.com.my). Alternatively, log on to the forums at [forum.chip.com.my](http://forum.chip.com.my) and make yourself heard! The Letters page is an outlet for you to voice your views and opinions towards the magazine as well as general tech trends. Feedback sent to us may be edited for suitability without altering the intended point-of-view. The monthly winners for LoTM will be contacted for further details.



**msi**



# The Weapon to Own Your Game



## GTX 980Ti GAMING 6G

## TWIN FROZR V

### Next Gen GAMING FEATURES

#### TORX FAN

Cutting edge fan design for superior cooling



#### SUPERSU PIPE

Special heat pipes for better heat dispersion



#### ZERO FROZR

Fans stop spinning under idle load, keeping heat and noise levels low



#### GAMING APP

One click performance gain, keeping your eyes fresh



NO. 1 IN GAMING

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4th from left: Peter Tong, President, South Pacific Region and Henry Hsu, COO of Huawei Consumer Group flanking Richard Yu, CEO of Huawei Consumer Business Group

# Huawei Opens Up Big At CommuniAsia 2015

The recent CommuniAsia held at Marina Bay Sands at Singapore has Huawei launching their latest flagship device the Huawei P8 smartphone along with other anticipated products

The week that was COMPUTEX did not outshadow Huawei as it launched its prestigious Huawei P8 smartphone together with a few other devices, such as the Huawei Watch, Huawei P8 Lite, Huawei TalkBand B2 and the Huawei TalkBand N1 at CommuniAsia 2015 in Marina Bay Sands. Furthermore, Huawei has also introduced its WeiTo campaign, which is synonymous with its brand mission which is a shift to a more consumer-centric brand.

The main event highlighted the launch of the Huawei P8, which is a sleek and

powerful device that was designed to have a natural connection with human nature by providing a device which is both simple yet complex. This new smartphone comes with a whole variety of new features such as the knuckle sense technology which allows you to tap the phone screen with your knuckles to capture the full screen shot while drawing circles on the screen allows you to capture the content you want. It also incorporates the world's first RGBW four colour sensor which enhances brightness in low light and high light situations. It also features an industry leading Optical Image



Henry Hsu talks about the future of Huawei products

Stabilizer and a unique Light Painting feature which allows you to capture artistic light paintings from streams of light. For those who enjoy taking amazing videos, this new device come with the special Director Mode which lets you link up up to four additional Android devices to capture different video angles while shooting a video scene simultaneously. The Huawei P8 will be available in Malaysia at July at





Richard Yu, CEO of Huawei Consumer Business Group reveals the Huawei P8 smartphone the price of RM1,799.

The second mobile device that was shown at the Huawei launch was the Huawei P8 Lite. This simplistic smartphone highlights its superb camera, an amazing music player and a strong LTE connectivity that makes it worthy of the P8 family. It comes with a 5-inch fully laminated IPS touchscreen display which is smooth and flat while powered by a 1.2GHz 64-digit Octa-Core Kirin 620 chipset. It has 13MP rear facing cameras and 5MP front facing cameras. This device would also be available coming this July.

Moving on to some of the exciting



The Huawei P8 arrived at our shores recently, and its sleek design is shown here.

audio devices that were shown during the launch were the Huawei TalkBand N1 which is a high quality Bluetooth headset for sports and music lovers. This headset is equipped with an industry first Hi-Fi stereo which has a 4GB storage for local MP3 storage capable of holding up to 1000 songs. When paired with a smartphone, the TalkBand N1 also becomes a health and sports tracker with extra functionalities such as step counting, distance calculation, calorie consumption calculator and more. Additionally, the TalkBand N1 is IP54 dust-proof and waterproof level while also being available in three different colours of Silver, Grey and Red.

On a more exciting note, we had also witnessed the first smartwatch within the Huawei family which is the Huawei Watch. It is a 1.4-inch AMOLED, scratch proof, and waterproof smartwatch which is fully circular in design. This device was designed by a team of traditional watch makers with a long history in time pieces whereby this device boasts exquisite craftsmanship which features sapphire crystal elements and a metal body of 316L corrosive resistant, cold forged stainless steel.

It has a remarkable 400x400 resolution display and its sensitive sapphire crystal lens cover even works well with gloved or wet hands. The Huawei Watch comes in three stylish colours of Gold, silver and black. As it is powered by Android Wear, it also comes

featured with an advanced heart rate monitor, 6-Axis sensor, barometer sensor and a built-in microphone.

At the Huawei Booth in CommuniAsia, they had showcased various new devices yet to be seen on our shores such as the P8 Max, Huawei Watch and the latest TalkBands. Also part of their booth was the full 360 degree photo rig which captures your movements within the enclosure frame by frame, showcasing the capabilities of the Huawei P8. 📷

[www.huawei.com](http://www.huawei.com)



The Huawei Talkband N1 was also on display at the Singapore launch, and this is a nifty audio device to get if you like music on the go



These are some of the pictures taken using the Huawei P8 shown on display at the recent Malaysian launch of the flagship device



# NVIDIA Tech Showcase Singapore

NVIDIA announces new products and updates for its gaming line

NVIDIA decided that it was a good idea to show off its latest flagship GPU ahead of COMPUTEX, the brand new NVIDIA GTX 980Ti, based off the same processor that powers the company's ultra-high-end GPU, the GTX Titan X.

The card features 6GBs of GDDR5 memory, and is powered by the same GM200 graphics processor that is used in the Titan X. As a matter of fact, the GTX 980 Ti pretty much shares a lot of the specs of the Titan X, including processor speed, which is set at 1.0GHz, memory speed which is set at 7.0GHz, memory bus width at 384bit, as well as a transistor count of 8.0 billion.

The difference between the two cards can be seen at the number of CUDA cores and Texture Units both these cards have, with the 980 Ti featuring 2816 CUDA cores and 176 texture units versus

the Titan X's 3072 and 192 cores and units respectively.

The 980 Ti is geared towards the niche super high-end gaming market, and with that in mind, it is pushing the support for the new DirectX 12 API support, which includes features such as Volume Tiled Resource, Conservative Raster, Tiled Resource, and Ray Traced Shadows, amongst others.

With a TDP of 250W, your PC will also see less power consumption, which is great as your GPU will not generate obscene amounts of heat just to push more pixels to the screen.

Industry analysts are predicting there will be more than 350 million PCs running Windows 10 within the first year of its release. That's a lot of potential gamers. And with more than 100 developers working on DX12 games, now's the perfect time to get ready.

## Virtual Reality

With the advent of virtual reality devices just upon the horizon, NVIDIA has taken it upon themselves to help various companies that are working on the technology, such as Oculus, Unity, Epic Games, Valve and Crytek to improve the way the graphics look and are delivered to the users to improve image quality and the overall user experience of these devices with a new technology the company calls GameWorks VR.

A common problem with virtual reality optics these days is that the view of the image in the headset is warped as fisheye lenses are used to simulate periphery vision. With the new VR Works tech, NVIDIA adds a post-processed reverse warp to help fix the image, allowing users to see a properly rendered image when using a VR headset.

That being said, if one was to use



The NVIDIA GTX 980 Ti features the same Maxwell GM200 graphics processor as the Titan X, but at a much more lower price point



An NVIDIA engineer explaining the features the new GTX 980 Ti brings to gamers, including extended support for DirectX12





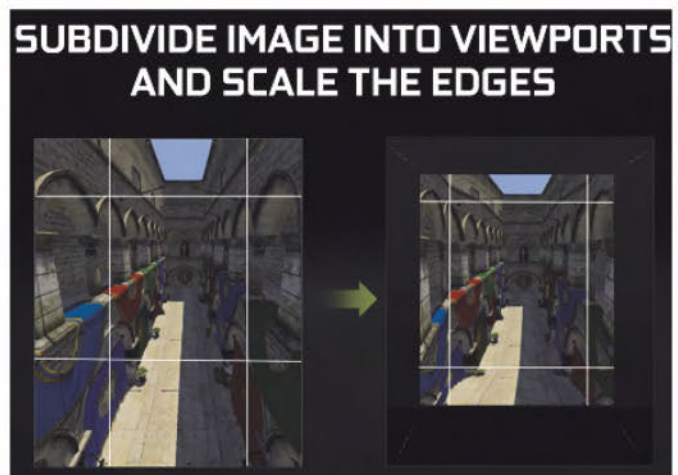
The Aorus X5 is one of the more unique laptops on display as it features two GTX 965M discrete GPUs in SLI mode



Testing out the Oculus Rift with an NVIDIA GTX 980 Ti graphics card



The Clevo P750ZM-G is one of the few laptops out now that features NVIDIA's G-SYNC Direct feature



NVIDIA VR Works' Multi-Res Shading intelligently renders graphics that only your eyes will be able to perceive

a standard image rendering solution, a downside to this is that the GPU will actually be rendering a lot of pixels that would not make it to the user's periphery vision due to the warped periphery of the image. This means a lot of wasted power going out to render something that you likely wouldn't even be able to see.

With this in mind, NVIDIA also introduced what it calls Multi-Res Shading, a rendering method that divides images into sections and scales the edges to actually render only what your eyes, or in this case the VR headset's lenses is able to output.

Thanks to the second generation Maxwell chip's multi-projection architecture, each section is rendered at its most optimal resolution so as to save on processing power and speeding up

the render process of the image.

Using the Multi-Res Shading technology, VR image rendering with the new NVIDIA GPUs have seen 1.3 to 2.0 times improvement in pixel shader performance. Not only that, if you have two NVIDIA cards in SLI, you can also use GameWorks VR to have each GPU work on the rendering for each side of the VR headset's eyeball for better graphics performance.


### G-SYNC Updates

Also unveiled at the event was GSYNC Direct, which is a way for laptops with G-SYNC-capable GPUs such as the GTX 980M to call forth upon the card's resources to use a version of NVIDIA's screen-tearing solution.

The way G-SYNC works on desktops is that you are required to have not only an NVIDIA

GPU that is capable of G-SYNC, but you also will need a display that has a G-SYNC module installed on it. What GSYNC Direct does is that it eliminates the need for this module as it is embedded directly on the GPU.

That being said, currently there are only a small number of laptops that have this G-Sync Direct feature enabled at the moment. These include the Aorus X7 Pro-Sync, the Clevo P705M-G, and the MSI GT72-G.

Not only that, the desktop G-SYNC feature has also received some upgrades, as games running in Windowed Mode will also be able to use G-SYNC, and users will also get the option to turn V-SYNC off if the game's refresh rate goes above that of the monitors, so that the frame limit will be set to the display's. 

[www.nvidia.com](http://www.nvidia.com)



Donny Ling, Director, Imaging Communication Products Division; Wataru Nishioka, President & CEO of Canon Marketing (Malaysia) and Nicole Lim, Marketing Manager, Imaging Communication Products Division with the three new cameras

# Fifty Mega Pixels From Canon

## 5DS and 5DS R pushes the boundary for imaging

The world of photography will never be the same before, as Canon announces their cameras with the highest megapixel count ever – the new EOS 5DS and 5DS R. Also announced together with the new DSLRS is Canon's first 4K-capable video camera, the XC-10; as well as their imaging online portal – 'Your Life with Canon'.

"The EOS 5DS and 5DS R mark a milestone in Canon's range of DSLRs, with their breakthrough high image resolution in the 35mm format. Both cameras are an excellent choice for discerning users who appreciate the fine details, thanks to their ultra-high image resolution and excellent range of features," said Wataru Nishioka, President and CEO of Canon Marketing Malaysia.

The two cameras feature the company's 50.6 megapixel 35mm full-frame sensor – Canon's highest thus far. The two cameras also feature dual

DIGIC 6 image processors that includes a 5 frames per second shooting speed. With Optical Low-Pass Filter cancellation for the 5DS R, this translates to higher resolution photos while reducing the moiré effect.

With 61 high-density reticular autofocus (AF) points that is on-par with the 5D Mark III, it is paired with a newly developed mirror vibration control system to counteract shaky hands for great images with every shutter press.

For professional and advanced-amateur videographers, the XC10 video camera records in 4K, and can be used in various applications. Thanks to the 1.0 inch CMOS sensor, plus a 10x optical zoom lens – the XC10 is a high performing imaging platform, thanks to the DIGIC CV 5 video processor, and the proprietary XF-AVC video format.

At the same time, the XC10 also can record 12 megapixel images, with ISO sensitivity up to ISO20000. Plus, thanks



The 4K capable XC10



The 5DS with a wide-angle lens attached



The 5DSR with a telephoto lens attached

to the mechanical shutter, it eliminates the rolling shutter skew effect, even when capturing subjects moving at high speeds.

Canon also launched the "Your Life with Canon" online platform for Canon customers, where registered customers can enjoy exclusive privileges – including warranty registration and services, loyalty points accrual and redemption, special promotions and offers, plus exclusive invites to special Canon events.

The Canon EOS 5DS and 5DS R will be available from end June, with the former priced at RM 13,999 and the latter at RM 14,999 for body only. The prices include 6% GST. The XC10 price will be announced soon. 🇲🇾

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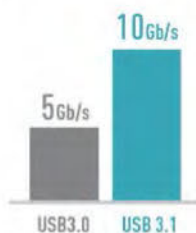
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(From right) Sumner, Prakash, Robin Martin, Managing Director For Assembly, Test and Manufacturing and Yannick LeClercq, Managing Director, Intel Mobile Communications South East Asia on stage

# From Malaysia to the World

Intel new computing paradigm has roots in Penang

A new solution for compact computing has arrived. Intel launched their take on the micro PC platform – named the Computestick. The new product – no bigger than a stick of gum – now enables any HDMI-equipped display to be turned into a computer.

Running Intel's Atom Baytrail-T chip, the Computestick is a fully featured computer in one. Just plug in a mouse/ keyboard combo via the built-in USB port or connect to it via the built-in Bluetooth connectivity option and you are ready to go. As it is powered fully via the USB bus, it doesn't need any extra cables or power adaptors to run it.

"What we're unveiling today is a culmination of the work we've built on a foundation laid down by 50 years of Moore's Law. In fact, the Intel Compute

Stick was a brainchild of local engineers here in Intel Malaysia and we are extremely proud of having brought this game changing idea to fruition," said Sumner Lemon, Country Manager, Intel Malaysia and Singapore. "The Intel Compute Stick provides the functionality of a full-fledged desktop computer without taking up the space of one. It will open up a whole new world of computing for its users – be it those who work in small offices, those who compute on the go, or those looking to upgrade their smart living room setups."

The Intel Computestick was a concept that was conceived in Malaysia's Intel campus, the first out of America production and research facility for the company. Engineers from around the world was involved in the design and manufacturing for the new microPC,



A showcase on how the Intel RealSense technology works




The new Intel Computestick

including engineers from Malaysia.

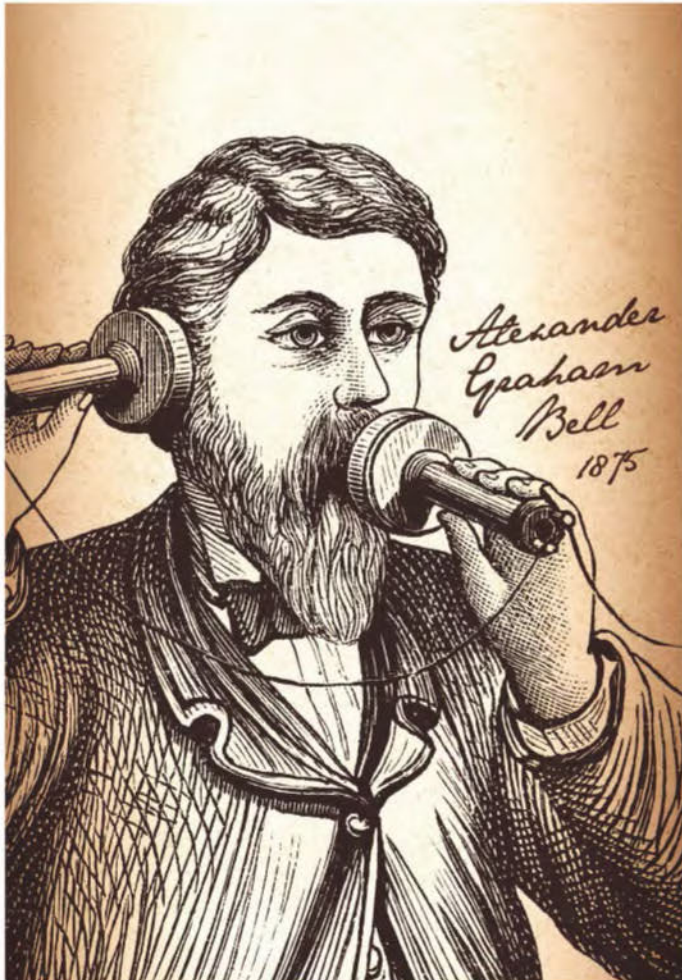
Also shown at the showcase are the latest 5th Generation Intel Core powered and various Intel Atom x3 reference designs and development boards. The 5th Generation Intel Core processor series, launched earlier this year at CES 2015, enables manufacturers to create high performance devices which offer uncompromising battery life while the Intel Atom x3 enables manufacturers to penetrate the entry-level market of mobile devices, with powerful smartphones and

"Technology is driving a new wave of innovation throughout the entire Asia-Pacific region including Japan. Some of the latest devices capable of enabling more personal, engaging experiences are being developed right here in Asia - this includes the Intel Compute Stick developed in Intel's Malaysia Design Centre and the Atom X3 processor series developed in Intel Mobile Communications in Singapore," said Prakash Mallya, Managing Director Sales and Marketing Intel South East Asia.

The Intel Computestick is expected to be in the Malaysian market by the second half of 2015, and is expected to retail around RM599. 

[www.intel.com.my](http://www.intel.com.my)





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## ENGINEERED FOR BUSINESS



Donovan Sung, Head of Product for Xiaomi Global with the new Mi4i's

## The New Mi

Xiaomi has recently launched its latest Mi smartphone, the Mi4i which is a device with the performance of a mid-ranged smartphone but at a lower entry price


**X**iaomi launched their latest smartphone, the Mi4i smartphone which comes in a slim and compact body. Xiaomi used its powerful design and engineering capabilities to create a flagship device that is able to take on the world. This device was first seen during its launch in India less than a month ago.

The Xiaomi Mi 4i comes with a 5-inch 1080p Full HD screen with an all new Sunlight Display and a high capacity 3120mAh battery that powers the device. The Mi 4i would also be the first MIUI 6 device based on the Android 5.0. The Mi 4i is a masterpiece that is filled with top of the line components from leading global suppliers such as Qualcomm,

Samsung, Corning and Sony, as well as Foxconn for the cutting edge motherboard.

Performance wise, the Xiaomi Mi 4i is equipped with the 2nd generation Qualcomm Snapdragon 615 octa-core 64-bit processor, 2GB LPDDR3 RAM and 16GB on-board Flash memory. It is also equipped with a 13MP f/2.0 rear camera

and a front facing 5MP camera with an 80 degree wide angle lens.

Mi fans are also given additional options as major operators would begin the sale of the device on 12 June 2015 whereby it would be sold at RM749.  [www.mi.com.my](http://www.mi.com.my)



The phone disassembled to showcase the parts used to make the Mi4i



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The ASUS ROG G20 makes use of console design coupled with desktop performance to bring the best of both worlds



The new ASUS ROG G551 is built for gamers who are always traveling, giving them the performance they need anywhere, anytime

# ASUS Brings More Goodies To The Table

ASUS has brought five new items for their ROG brand line-up which gives gamers more choices when purchasing their next gaming device

ASUS revealed five of its latest offering across the different types of gamers with the ASUS ROG G751, G551, G501, GL552, and the G20. These gaming laptops and desktop are placed strategically across different price spectrums to represent the levels of gaming commitment one would require.

Placed at the top of the tier is the G751, which comes with an Intel Core i7-4720HQ and has 24GB RAM with 1TB 2.5 7200R SATA HDD with 128 GB 2.5 SSD. Graphic-wise it runs on the latest NVIDIA GeForce GTX980M GDDR3 4GB which is able to run all of the latest games with ease. This device comes with 17-inch FHD IPS display and has dual connected fans with copper heat sinks to keep the temperatures low to provide precise stability while the ASUS Turbomaster GPU allows overclocking


to be boosted up to an additional five percent.

The next device presented was the ASUS G551 which is built for those who needs to game on the go. This gaming device comes in either Intel Core i7 or i5 processors and runs on 16GB of RAM with a wide variety of customization options for storage which allows you to pick and match different combinations of SSD or HDD settings. It has a 15.6-inch 16:9 HD with EWW (1366 x 768) display with Full HD IPS panels. This device runs on the NVIDIA GTX850M graphics card.

For those who are just casual gamers or on a budget, the ASUS GL552 which is a gaming laptop for the masses. This laptop comes with the latest Intel Core i7 processor and a 15.6-inch Full HD IPS display. It is running on 16GB RAM and it also allows you to set different storage options to suit your different needs. For

those who love to customise, the device has an upgrade panel which offers access to the SSD and HDD ports as well as RAM slots.

Some gamers prefer to stay at home to enjoy their games instead of traveling thus the ASUS G20 gaming desktop. This device comes with the 4th generation Intel Core i7 processor, and the NVIDIA GeForce GTX 780 graphics. Its main features are the deceptively quiet system which also keeps the system extremely cool while displaying a cutting edge 12.5 litre space saving chassis design.

All of the ASUS ROG G751, G551, G501, GL552, and the G20 are already on the market and they are priced at RM8,499, RM3,799, RM4,999, RM3,199 and RM5,499. 

[www.asus.com/my](http://www.asus.com/my)



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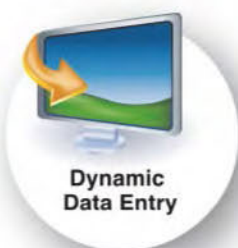
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# Galaxy S6

The intuitive and Streamlined User Experience

## 1. Simple & Easy



- Simplify UI with a focus on high priority information
- Clear interpretation with text



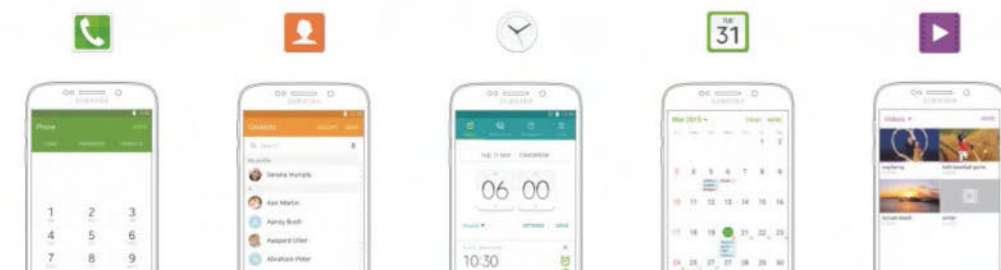
Standard mode

Pro mode

- Easy camera control with labeled icons
- Quick switch between Standard mode and Pro mode

## 2. Impressive Look & Feel

- Bright and simple colors for intuitive function
- Clear and simple app page designs





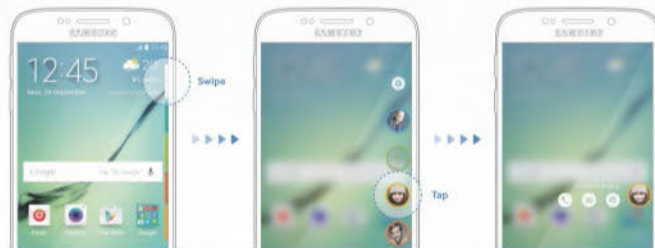
SAMSUNG

# Galaxy S6 edge

The beautifully designed dual edge screen of the Galaxy S6 edge also maximizes screen immersion with a thin bezel

## 1. People Edge

- Know when you are receiving important calls from the people who matter most
- Display ticker information by swiping the edge area



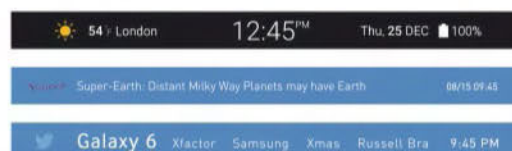
Add Up to 5 people



Missed call

## 2. Information Ticker

- Check ticker information by swiping the edge area



# Working from a Happy Place

Intel and HP wants users to be more creative, anywhere and everywhere

A survey made online recently stated that 2/3rds of Malaysians will choose happiness over salaries and job titles. While it is a lofty goal, work still needs to be done – but

the point being is that work doesn't necessarily be stuck in the office. The Intel #WorkFromHappyPlace campaign invites Malaysians to restore their work-life balance, redefine productivity



Karen and Kym at the launch of Intel's #WorkFromHappyPlace event



Some of the HP products on showcase during the event

and reinvigorate their creativity with Intel powered devices, such as the HP Stream 8 tablet and the HP Pavilion x2 2in1 convertible.


"For over 50 years, Intel has been refining microprocessor technology to the beat of Moore's Law. These microprocessors power the continuing evolution of computing devices - from massive data centres and sleek 2in1 devices to smartphones and tablets. Thanks to the close cooperation we here share with customers like HP, we have been able to offer these innovations to consumers," said Karen Chow, Head of MNC and Telco, Intel Malaysia and Singapore.

Powered by Intel processors, the HP Stream 8 and Pavilion x2 deliver the speed and responsiveness to support anywhere, anytime productivity. They are the ideal companions for a mobile, connected and dynamic workforce driven by passion, freedom and good old-fashioned fun.

The HP Stream 8 is a single-SIM (Micro-SIM) tablet powered by an Intel Atom Z3735G processor (1.8GHz, 4 cores, 4 threads) with Intel HD graphics and 1GB of DDR3 RAM, an 8-inch HD (1280x800 pixels) IPS display, Windows 8.1 and comes with a one-year subscription to Office 365 and 1TB of Microsoft OneDrive storage for one year.

"Today's consumers demand mobile products that fit their personal style, and allow them to work and play wherever they are. These HP products hit the mark with sleek design, portability and access to free cloud storage," said Kym Lim, General Manager, Printing & Personal Systems, HP Malaysia.

The HP Pavilion x2 2-in-1 PC meanwhile has a full-featured 10-inch Windows tablet with a detachable dual-purpose keyboard/cover that both protects the screen and serves as a multi-position stand. Powered by the latest-generation Intel Atom processor, it has a battery that lasts up to 11.45 hours for serious staying power to shift from work to play without missing a beat. Like the HP Stream 8 tablet, the HP Pavilion x2 also runs on Windows 8.1 and comes with a one-year subscription to Office 365 Personal.

The HP Stream 8 and HP Pavilion x2 is available at RM847 and RM1377 respectively. 

[www.hp.com.my](http://www.hp.com.my)

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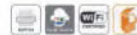
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- Direct USB Scan
- USB, Network, WiFi
- 1 year on-site



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- Direct USB Scan
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- Free Upgrade to 3 Years Warranty



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# Showcasing Malaysian Talent in the Heart of London

Malaysia Creative Tech Showcase 2015 brings local creatives into the worldstage

**H**eld at LimKokWing University of Creative Technology campus in Piccadilly, London, the opening ceremony of Malaysia Creative Tech Showcase 2015 was officiated by the Deputy Minister of Science, Technology and Innovation Malaysia (MOSTI), Datuk Dr. Abu Bakar Mohamad Diah. The Chairman of Malaysia Creative Technology and CEO of Capital TV, Noor Azman Yusof was present, as well as Dato' Ahmad Rasidi Hazizi, The High Commissioner of Malaysia to the UK., Sue Bishop, Director of Creative Economy, Tech & Construction., UK Trade & Investment (UKTI), and Dato' Tiffanee Marie Lim, Vice President of Limkokwing University.

Malaysia Creative Tech Showcase 2015, organised by Capital TV, was a two-day


event from 15th to 16th June 2015, held in London, in conjunction with London Technology Week where 40,000 industry players congregated in London from more than 40 countries to participate in 203 events, on 125 venues across London.

Malaysia Creative Tech Showcase 2015 is a platform to promote Malaysia's technology, innovation and creative content industry and what Malaysia has to offer to the international market. The event showcased Malaysian achievements and capabilities in the field of Technology, Innovation, Special Visual Effects (VFX), animations, games and mobile apps.

The two-day event ranges activities from exhibitions - which includes a business match-making session between UK and Malaysia companies, an industry

presentation session by industry speakers from the United Kingdom and Malaysia, networking session, and a guided trip to BBC studio in London as an industry exposure for the Malaysian delegation.

"I believe that 'Malaysia Creative Tech Showcase 2015' is an avenue where the community comprising of engineers and technocrats can converge to share their knowledge and also gain insights on the latest technical developments and offerings that would inherently allow businesses to create superior market-leading products," said Deputy Minister of Science, Technology and Innovation, Datuk Dr Abu Bakar Mohamad Diah.

According to Noor Azman Yusof, the Chairman of the event, "It is time for the creative technology industry in Malaysia to expand abroad on British soil, I hope the that Malaysia Creative Tech Showcase will be the platform of achieving this goal."  [malaysiacreativetech.com/](http://malaysiacreativetech.com/)



Datuk Dr. Abu Bakar talking to one of the delegates of the showcase



Datuk Dr. Abu Bakar Mohamad Diah launching the Malaysia Creative Tech Showcase in London





# Samsung's Curvy Delight

Samsung has announced its latest expansion series of curved monitor lineups with four new models

**S**amsung Malaysia Electronics has recently announced an expansion of its curved monitor line up with four new models, helmed by the 34-inch SE790C, 31.5-inch SE590C and 27-inch SE591C and, completing the lineup, the 27-inch SE591C.

Samsung Electronic's new curved monitors all feature industry leading Vertical Alignment (VA) panel technology which provides an optimal level of curvature, superior contrast ratio and significantly reduced backlight bleed which provides enhanced picture quality. These high performance Panels complement the natural curve of the human eye to deliver an immersive, seamless, and comfortable viewing experience, even during dark settings


such as movie and gaming environments.

These new monitor lineups are also equipped with advanced features that further enhance viewing comfort such as the eye saver mode which gives a low blue light technology that helps reduce the blue light on viewer's eyes and associate eye strain, particularly during extended periods of screen use. For enhanced on-screen immersion, the monitors produce an impressive contrast ratio which ranges from 50,000:1 for the SE590C to 3000:1 for the standard models as well as high brightness which can go up to 350 cd/m2 with the SE590C.



Jeffrey Thu, Monitor Marketing Leader of Samsung, Malaysia Electronics Sdn Bhd

Additionally, these monitors also come with a game mode feature which intelligently detects changes in scenes by correcting blurry images, enhance colours and alter contrast for improved in-game visibility.

The S34E790C, S32E590C, S27D590C and S24E510C curved screen monitors are already available at the following retail prices – RM4,299, RM2,199, RM1,299, RM 999 respectively.  [www.samsung.com](http://www.samsung.com)

# Fitbit is Officially in Malaysia!

## Staying healthy with technology

After three years since the company became a runaway success in the wearable segment, Fitbit has officially landed in Malaysia. While it has been made available by third party importers previously, Fitbit will now be officially made available throughout the country.

"With a growing focus on personal health, fitness and wellbeing across Malaysia, and the strong demand for mobile devices and technology in the market, Fitbit is thrilled to provide consumers in Malaysia without full line of trackers – at affordable prices across all mobile platforms, ensuring that everyone can find the right fit for their lifestyle and their goals," said James Park, CEO and Co-founder of Fitbit.

Thanks to the growing awareness of the

need of healthy lifestyle, health trackers has become a must-have item for users from all over the world. This is where Fitbit comes in, by giving choices for consumers to start their journey to a healthier lifestyle.

For Malaysia, Fitbit will be bringing in the full range of its top-selling activity and sleep tracking products. They are the Fitbit Surge, Charge HR, Charge, Flex, One, Zip and Fitbit Aria WiFi Smart Scale.


Along with the announcement, Fitbit also aims to be the best fitness platform consumers can enjoy as they understand that there are no "one size fit all" option in fitness – thus the wide range of options available. The Fitbit platform combines connected and health devices, with software and services for consumers who are looking to maximise their fitness levels.

Started off in 2002 in California by



The new Fitbit Surge

James Park and Eric Friedman, the company now has more than 750 people working around the world.

The prices for the Fitbit products are as follows: RM 250 for the Fitbit Zip, RM 408 (Fitbit One), RM 408 (Fitbit Flex), with the Fitbit Charge retailing at RM 510, followed by the Fitbit Charge HR (RM 620), Fitbit Surge at RM 968, and lastly the Aria Smart WiFi Scale for RM 525. 

[www.fitbit.com](http://www.fitbit.com)

# A Q(uality) Camera for the Streets


## Leica's latest compact crams a full-frame sensor into a compact

Looking to attract a different range of customers, Leica Malaysia launched their newest compact camera, the Leica Q. A camera that has a full frame sensor in body, the Leica Q features a Leica Summilux 28 mm f/1.7 ASPH. Lens, which is great for just about any photography situation out there. Thanks to the lens, low light shots will not be a problem with this camera.

Managing Director of Leica Camera Asia Pacific, Mr Sunil Kaul says, "The Leica Q offers the greatest possible creative freedom for realising even the most demanding photographic ambitions, the Leica Q marks a new milestone for Leica Camera, build on the values of exquisite quality and sustainability."

Apart from the 24-megapixel sensor,

it also comes with an integrated viewfinder with a resolution of 3.68-megapixel. With a press of a button, users can achieve 28mm, 35mm and 50mm images with the same camera. The Leica Q also feature an integrated Wi-Fi module for wireless transmission of still pictures and video to other devices and remote control by WLAN from a smartphone or a tablet PC through the Leica Q app, available for iOS and Android.

If you want to get one – there is a wait. The first batch slated for Malaysia are already sold out, and Leica is trying hard to get more stock for sale. If it is back on sale, the Leica Q will be retailing at RM 16,000, with GST. 

[www.leica.com](http://www.leica.com)



Sunil Kaur with professional photographer Ming Thien alongside the Leica Q



The new Leica Q



# Sony Unveils Brand New Devices

Sony shows off new phones and tablet for the Malaysian Market

After what seems like a quiet spell, Sony Mobile Communications have unveiled three brand new Xperia mobile devices in the Malaysian market, which includes the Sony Xperia M4 Aqua Dual, the Xperia C4 Dual and the Xperia Z4 Tablet.

The Sony Xperia M4 Aqua Dual aims to set a new standard for mid-range smartphones, as it is powered by Qualcomm's 615 processor that features integrated LTE support, running Android 5.0 Lollipop, and a two-day battery life thanks to its 2,400mAh battery.

One of the M4 Aqua's impressive features is its 13MP rear camera, featuring an Exmos RS mobile sensor with a large f2.0 aperture, and up to ISO 3200 sensitivity. It has a Superior Auto Mode simplifies the way you use the camera, automatically sensing up to 52 different scenarios, which will switch the camera to low-light mode or adjust the settings to compensate for strong backlight.

The 5MP front-facing camera meanwhile has a super wide-angle lens with an 88 degrees field of view. Portrait retouch meanwhile allows you to post-process the photos to add a touch of individuality and make them fun.

If taking a lot of photos and selfies is


what you're about, the Sony Xperia C4 Dual will not disappoint you. Featuring a 5.5 inch HD display, the C4 Dual also sports Sony's Mobile Bravia Engine 2 display technology, outputting a myriad of colours to the phone powered by a 1.7GHz octa-core processor and 2GBs of RAM.

Much like the M4 Aqua Dual, the C4 Dual features a 13MP rear-facing camera that has autofocus and HDR packed in. Its 5MP front-facing camera meanwhile has a 25mm wide angle lens, Exmor R mobile sensor and soft LED flash and HDR features that help you to create amazing-looking photos, regardless if you're taking photos of a beautiful landscape, or a group picture with friends and family, even under low light conditions.

For those who run around with multiple phone numbers, you'll also be happy to know that the C4 Dual and the M4 Aqua Dual smartphones are dual-SIM capable with LTE support and have options to expand its storage via a microUSB card, up to 128GB.

The Sony Xperia Z4 Tablet meanwhile is 10.1 inches of slimness, powered by a

powerful Qualcomm Snapdragon 810 processor, with 3GBs of RAM. The Z4 Tablet's IP68 waterproof and dust-tight rating ensures that it is usable even if you're in the most dire of weather conditions, or just lounging by the poolside. As an improvement over the previous Z2 Tablet, the Z4 Tablet's USB connector is cap-less, allowing you to easily charge your device without having to fiddle around to access it.

Availability for the three devices are somewhat staggered, with the Sony Xperia M4 Aqua Dual being available from next week onwards for RM696, while the Sony Xperia Z4 Tablet will be available from the 22nd of June for RM2,699, and you'll also get an option to purchase it with a keyboard dock for RM3,199. The Sony Xperia C4 Dual meanwhile will be made available next month, with the price tag coming later. 

[www.sony.com.my](http://www.sony.com.my)



The Sony Xperia Z4 Tablet is the hero product here, powered by a Qualcomm Snapdragon 810 processor, 3GBs of RAM and features support for LTE as well



The Sony Xperia C4 Dual features a large 5.5 inch HD display and a 13MP rear-facing camera and a front-facing 5MP camera for selfie lovers



The Sony Xperia M4 Aqua Dual features a 5.5 inch HD display powered by a Qualcomm Snapdragon 615 processor

# A Moment Forward

Uber has created an all new membership loyalty program for its drivers, which gives them access to empowering new benefits

Earlier this month, the world's leading transportation platform Uber launched Momentum in Malaysia, which is an industry first here as it is a one of a kind loyalty program which delivers meaningful business and lifestyle rewards for its driving partners.

Momentum aims at lowering operational costs for driver partners, giving driver partners access to lifestyle benefits, improving the industry skill level with academic opportunities and creating a supportive community among driver partners. Momentum has already gained wide acclaim in the US and UK

by generating great rewards and savings for driver partners and now Momentum is coming to Asia with Malaysia as its pioneering country.

This program starts on the 1st July 2015, with all Uber driver partners in Malaysia gaining access to Phase One,

which entails rewards in the guise of large discounts and cash vouchers across participating outlets in Klang Valley, Johor Bahru and Penang. [www.uber.com](http://www.uber.com)



The Uber team with some of the drivers involved in the Momentum project

# A Mobile Way To Solve Motoring Woes

CarBengkel provides an easy way to fix your car issues

As the festive season comes just around the corner, finding the right mechanic to help fix and service your car before the long journey back to your hometown is more important than ever. In order to facilitate the process even faster, a local company by the name of CarBengkel has recently announced and launched a brand new mobile app that helps you do exactly that.

A recipient of the Cradle CIP Catalyst product development grant, CarBengkel lets motorists locate nearby workshops and service centres to repair or send their vehicles for regular maintenance checks.

Armin Baniaz, founder and managing director of CarBengkel said that he and his team built the app so that car owners can

find workshops that provide great service at amazing value easily, without spending too much time.

"Most households do not set aside a budget for car maintenance as they do other expenses but it needs to be done to ensure the vehicle's optimal performance. It is only when the time comes for the vehicle's regular service or when it breaks down that motorists realise they have to part with a sum of money or more if a part of the vehicle needs to be replaced."

Car owners can use CarBengkel to request price quotations from workshops for repair or maintenance works and choose the one that fits their budget. Using the app, they can also arrange for the workshop to pick up their car for service

if they're too busy to drive in themselves, and drop off at home or office afterwards.

With the CarBengkel app, users can also send an SOS alert to nearby workshop when their vehicles break down in an unfamiliar area, and even send in a tow truck in case your car needs to be brought to the workshop.

Available for free on both the Android and iOS stores, CarBengkel boasts a network of 1,000 workshops and service centres nationwide, and it is expected that an additional 1,800 more will be included into its network soon.

The company also recently signed a partnership with the Malaysia Automotive Institute (MAI) to chart the network of service centres and workshops nationwide. MAI will also be collating labour costs and the recommended retail prices of car parts which will be made available on the CarBengkel app. [www.carbengkel.com](http://www.carbengkel.com)







# Learning How IT Is Becoming The 'It' Factor

CIOs from major corporations in Malaysia gathered to share thoughts and insights on the ever evolving IT world

As the IT landscapes evolves, CIOs need to check on where do they stand in the greater masterplan of their companies. Over 80 CIO's gathered at the Westin, Kuala Lumpur for the CIO Leaders Summit Malaysia in order to discuss their evolving role in an IT ground that is constantly shifting beneath their feet.

Giorgio Migliarina, Chief Technology & Innovation Officer, Telekom Malaysia gave the opening presentation, "What Lies Ahead: Challenges and Opportunities for CIOs in Malaysia". He spoke about how IT has made a substantial contribution to labour productivity growth; particularly in Malaysia, which ranks behind Singapore, but ahead of all ASEAN peers for ICT environment including Russia, China, Brasil, Indonesia, India, Thailand, the Philippines and Vietnam.

"Leaders will effectively and seamlessly wear different hats at different times. CIOs and their respective teams will require a mix of all skills to apply to different situations," he added later.

Other CIOs from major companies such as Prasarana, Lion Group, AXXA Affin Insurance and many more took the stage to talk on how the IT landscape is changing, and where the CIO needs to sit in maintaining and advancing the IT industry as a whole.

The summit also discussed on several important matters, such as the architectural challenges faced in developing and delivering software systems, how IT is fast becoming an important tool to enhance the socio-economic development and quality of life of communities, the 'do's and don'ts' of cloud implementation, technologies such as Cloud Integration,



Big Data Analytics and Social Technologies and how these initiatives have changed the enterprise, sitting deeper and more strategic partnerships in a culture that has shifted towards 'digital all the time', as well as examining the emergence of cloud and how it has fundamentally altered the role of the CIO.

The CIO Leaders Summit Malaysia is part of the CIO Pacific Series, with the next event due to happen in Singapore at the end of 2015. 🇸🇬

[www.cio-leaders.com](http://www.cio-leaders.com)

# A New Chapter

## Toshiba Tec buys over Tele Dynamics

After being a distributor of Toshiba's products for quite some time, Toshiba Tec Corporation recently announced that it has acquired the majority shares of Tele Dynamics Sdn Bhd, and changed its name to Toshiba TEC Malaysia Sdn Bhd.

Tele Dynamics has been a long time distributor for Toshiba, and considering the company's the know-how and contribution to Toshiba, have find that they are the most suitable company to enhance Toshiba's B2B business in Malaysia and Thailand.

Toshiba Tec Malaysia will be positioned to meet the growing customer demand locally, regionally

and nationally by capitalising on the strengths of Toshiba Tec and maintaining its already high level of service that its customers have come to expect.

The company, heralded by ex-CEO of Tele Dynamics Paul Ting will also

continue to deliver a wide variety of hardware and a broad range of solutions, ranging from Multi-Function Peripherals systems, Barcode systems, Point of Sales systems and IT services.



[www.toshibatec.com.my](http://www.toshibatec.com.my)



From L-R: Yukio Hara, Executive Director of Toshiba TEC Malaysia, Paul Ting, CEO of Toshiba TEC Malaysia, and Isao Sugehara, Chairman of Toshiba TEC Malaysia, and CK Chong, Director of Toshiba TEC Malaysia

# New Brand Look for Lenovo

## Lenovo sees itself to be at the top in the next five years

After the brand revamp that was recently announced in Lenovo Techworld, which was held in Beijing, Lenovo Malaysia recently sat down with the Malaysian media to talk about updates on the company, the roadmap and where the brand is taking themselves locally.

Executing transformations via new business models, and also approaching channel markets locally in Malaysia are some of the new steps that Lenovo is taking to bring the brand up to the top three, and eventually the top rank for market share here. As the first destination after the revamp to kick off the channel market engagement, Lenovo

will be focusing on strengthening their presence outside of the central Malaysia area, which is already enjoying a 28% market share. With a more customer-centric focus, Lenovo hopes to execute their 1.2.2.1 strategy – One year to number Two, and Two years to number One – here.

Dr Harry Yang, Vice President and General Manager, Lenovo South East Asia Region said that, "The company is far more diverse now, thanks to the recent acquisition of Motorola and IBM's x8 server business. This is shown with



Dr Harry Yang (second from right) with Kenneth Low, Marketing & PR Manager, Lenovo Malaysia, Khoo Hung Chuan, Country Manager for Malaysia, and Carynne Ooi Executive Assistant - Vice President, Lenovo South East Asia Region

the new energised brand identity and logo revealed in the Tech World event. We see a strong growth momentum in South East Asia, with Malaysia being a key growth driver in consumer, commercial and key accounts segments. Through our Protect and Attack strategy, we see continued growth in our three growth engines of Enterprise, Mobility and Ecosystem/Cloud – as well as our strong PC business."

[www.lenovo.com/my](http://www.lenovo.com/my)



# Stay Fit And Smart With The Sony Smart B Trainer

The new Sony Smart B-Trainer, is everything a runner needs, when it comes to working out productively and efficiently

Getting your cardio workout done productively is no easy feat, as you progressively try to train within your means to avoid injury or over exhaustion. Sony, has revealed a new device that can keep your running workouts managed properly and intelligently with the new Sony Smart B-Trainer.

Sony's Smart B-Trainer is a intelligent sports device that makes training efficient and fun by allowing you to measure and record stats, while enjoying music playback all within a single device. It also comes with a special application which allows management for training sessions and

various training menus.

The basic training menu gives users the goal setting feature for a specific day and training menus such as heart rate monitor, fat burning and stamina enhancement sessions. There is also an additional premium training menu which can be purchased later for additional training menus, guided by a professional trainer. This device is JIS/IEC waterproof grade, which makes it perfect for rainy conditions and even swims.

The Sony Smart B-Trainer is already available and it is priced at RM999. [www.sony.com.my](http://www.sony.com.my)



From Left: Hiroyuki Wada, General Manager of Marketing, Chiew Yew ming, General Manager of Sales, and Joike Nagato, Product Planning and Market for Sony Malaysia



The new Sony Smart B-Trainer is perfect for runners who want not only to workout, but to get progressive training, accompanied by music on the go.

# UMobile Makes Services Closer

UMobile brings its services closer to its consumers by launching 100 roving trucks to bring access to their products and promotions from the comfort of your own neighbourhood

Have you ever imagined what it would be like to sign up for a new mobile plan or device bundle at a mobile kiosk right at your doorstep? Well, now you can see that happen in reality as U Mobile, Malaysia's most dynamic and innovative telco has made it amazingly more convenient for consumers to access its products and services, by deploying 100 U Mobile roving trucks. This initiative aims at bringing their award winning services to the consumer's doorstep making it easier to access when compared to traditional practices.

This new offering comes into place when consumers have faced issues such as late arrivals of new devices which

dulls the excitement of a new product launch, whereby consumers would have to wait for the second or third wave of stocks before being able to purchase their desired device. As such, the roving trucks deployed by U Mobile would be deployed in different phases, to cater to suburban towns and areas within the Central, Northern, Southern and East Coast regions of Peninsular Malaysia.

• Central: Shah

alam, Petaling Jaya, Ampang, Kajang, Semenyih, Dengkil, Cyberjaya, Cheras, Klang

• Southern: Johor Bahru, Batu Pahat, Nilai, Seremban, Malacca, Port Dickson, Muar

• Northern: Ipoh, Penang, Alor Setar, Manjung, Sg Petani, Seberang Jaya, Kulim

• East Coast: Kuantan, Kemaman, Kota Bharu, Gua Musang, Raub, Temerloh, Menkatab, Jerantut. [www.u.com.my](http://www.u.com.my)



U Mobile executives posing with the truck drivers after the launch ceremony

# The Stepping Stones To An Intelligent City

## Huawei Sets The Stage For A Smart City

As the world moves towards the concept of smart cities, where systems and services are interconnected, Huawei, together with several government and industry experts made new announcements to accelerate Malaysia's Smart Country Initiative, which was formed as part of the opening ceremony of the second Huawei ICT Roadshow.

The roadshow is a platform by Huawei for industry experts to exchange ideas and discuss the positive impacts of connectivity in Malaysia, whilst showcasing a number of security and surveillance features that can help ensure the safety of Malaysians in general.

Datuk Ahmad Shabery Cheek, Minister of Communications and Multimedia, alongside We Zehengping, the Economic and Commercial Counselor at the Embassy of People's Republic of China officiated the event, in which the minister put forward his vision for Malaysia to transform into a Smart Country in the future.

At the roadshow, Huawei also revealed that its Smart City solution will be made available in Malaysia. Together with industry partners, Huawei's Smart City solution will offer cutting edge security with ubiquitous network access, alongside a convergent command center, video surveillance and mobile policing.

It also has the ability to provide



Abraham Liu Kang, Huawei Malaysia CEO, Y.B. Dato Sri' Ahmad Shabery Cheek, Communication and Multimedia Minister, Lim Chee Siong, Chief Marketing Officer, Huawei Southern Pacific

comprehensive on-site information with visual command, cross regional resource sharing, as well as an intelligent analysis functions for 360 degree security protection. 📶

[www.huawei.com](http://www.huawei.com)

# A Tablet For The Little Ones

## Enriching the minds of the young with technology from the start

As the tech-savvy crowd continues to grow younger and younger, parents are looking for a tablet that is not only safe for children to use, but sturdy as well, which is able to withstand tantrums of little ones.

JOI, the company behind the locally-made JOI 8 tablet has got just the solution with the JOI KinderTab, a 7.0 inch tablet powered by an Intel Atom Z3735G processor with 1GB of RAM and 16GBs of built-in storage, running Android KitKat 4.4.

What makes the KinderTab special, however is its rugged and child-proof chassis, as well as the built-in educational apps which was made with the National Preschool Curriculum in mind, as the minds behind JOI worked together with Intel and MyTeach to make

this possible.

"Working together with Intel and Myteach, we set out to create a device which can be used by parents and teachers to engage pre-school children in and out of the classroom. The JOI KinderTab has everything you need in an educational tablet – it is affordable, easy to use, rugged and child-proof," said Mr. Ko Yun Hung, Managing Director of SNS Network (M) Sdn Bhd.

In conjunction with the launch the JOI KinderTab, Myteach also announced a pilot study to be conducted in collaboration with Krista Education. It will be the first group in Malaysia to use the JOI KinderTab devices in its schools nationwide, and will kick off sometime later this month, and will provide



(L-R) Ko Yun Hung, Managing Director, SNS Network Sdn Bhd, Nick Lee, Managing Director, MyTeach Sdn Bhd, Sam Al-Schamma, Director of Education Sales, Asia Pacific, Intel and Wong Wai Kuen, Programme Director, Krista Education Sdn Bhd holding up the JOI KinderTab

MyTeach with data and feedback from teachers, parents and students to help them develop new features and modules that can be integrated into the teaching and learning process.

The JOI KinderTab is available now for RM499 at Krista Kindergartens (RM529 with GST), at AEON departmental stores, as well as online channels including Gloo.com.my, Lazada.com.my, Lelong.com.my, and Myteach360.com. 📶  
[www.joi.com.my](http://www.joi.com.my)





# AWS Summit Malaysia Showcases New Technologies

Amazon helps businesses grow their backend IT without worries

Amazon is a company that is mainly known as an e-commerce platform for end users to purchase items off the Internet. After creating a number of web applications to suit its own needs, the company realised it has developed a core competency in operating massive scale technology infrastructure and data centers all in a scalable level.

First introduced in 2006, Amazon Web Services (AWS) has since grown leaps and bounds in ensuring that companies can wholly offload the backend work off their hands in order to concentrate on building their businesses. AWS is focused to run its businesses effectively,

passing the cost of savings along to its customers.

Much like its business offering, AWS scales its business to operate more efficiently and lower prices of backend services for its customers. Businesses no longer need to worry about having to wait for long periods of times for servers to arrive in order to scale up their businesses, nor do they have to worry about paying extra cost to maintain them in case business slow down.

The platform of technology infrastructure services that comprise AWS cloud has grown rapidly, as it continues to listen to customers and consistently add new features. These



Richard Harshman, Head of ASEAN for AWS kicks things off at AWS Summit Kuala Lumpur



Wei Zhu, CTO of GrabTaxi talking about how AWS helped the company grow its IT services as and when they need it

include the Amazon Simple Storage Service (S3) which provides a fully redundant data storage infrastructure, with eleven 9s of durability, for storing and retrieving any amount of objects at any time, from anywhere in the web.

Amazon Kinesis meanwhile is a fully managed service for real-time processing of streaming data at a massive scale. This works in tandem with Amazon Machine Learning that makes it easy for developers of all skill levels to use machine learning technology to generate billions of predictions daily, and serve them real time.


With Machine Learning, companies can also detect problematic transactions, preventing customer churn and improving customer support. Best part is that it is pay-as-you-go, start small and scale as application grows.

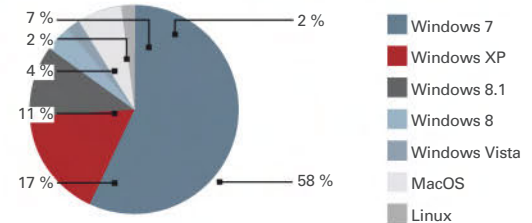
Local companies such as MyTeksi, Kim Teck Cheong Consolidated and 123RF all use AWS to consolidate their IT departments, allowing them to focus on their core business strategies, rather than having to worry about server hardware and technicalities. 🇸🇬

[aws.amazon.com](https://aws.amazon.com)

# Windows XP Keep Staying Alive


**A**lthough Microsoft stopped providing support for Windows XP a good one year ago, the operating system continues to be the second most common version on PCs (see picture above). About a fifth of the users worldwide have the system installed on their computers since 2001. This is a huge risk now: without security patches from Microsoft, the risk of catching viruses or being spied by hackers increases. This does not concern negligent private users only: the Berlin Administration still uses Windows XP, but has signed special support contracts with Microsoft in order to ensure safety. The loyalty towards Windows XP is also probably simply linked to the dislike for Windows 8. Together with Windows 8.1, it has a smaller market share than XP. Old

systems are not purely a PC phenomenon by the way: in Smartphones, Android 2.3 still takes up a market share of about six percent – higher than the current version Lollipop. Both these versions are about five years and seven version updates apart by now. This also reveals the loyalty of customers towards old Smartphones because they generally are those that are denied an update to Android 4.0 or 5.0. You can read more about update-related problems in Smartphones from page 80 onwards. 




## Speedy Battery Charge


**R**esearchers at the Stanford University have developed a quick charging battery for cell phone, laptops and tablets which is flexible, safe, long lasting and can be charged within the minute. This new aluminum battery can survive up to 7,500 charge cycles without loss of capacity, which in comparison, today we see a loss of capacity after just 1,000 charges. The batteries can be converted and folded and are hence suitable for use in devices that have less space. According to Hongjie Dai, Professor of Chemistry at Stanford University, these new batteries are on an aluminium base which also does not go up in flames when treated with a drill.

With the low comparative price of aluminium, one could also manufacture these batteries at a favouratively good rate. This new battery is dubbed Hitch, has only achieved a voltage of two volts which is half the capacity of lithium ion batteries. This leaves the energy density, ratio of capacity and size of the batteries much to be desired and as such not ready for the market yet. 

## Windows 10 Planned To Arrive in 2016

**W**hile Windows 10 is not yet available until next year, the next Windows update dubbed Redstone is a successor that is scheduled to appear earlier. According to insiders, it contains two updates which would be rolled out within the next few months. The main aim for Redstone is to integrate other devices such as wearables and the Xbox into the Windows environment which is often just surrounding PCs, laptops and tablets. This project owes its name due to the recent buy over of Minecraft whereby Redstone is an important material in the game. 


## Premium Youtube Service?

**A**re the advertisement on YouTube harassing you?, well soon, that would be an optional problem as you can soon be able to ignore those advertisement by paying a premium subscription fee. While the portal has yet to disclose any prices for the subscription, YouTube has stated that content providers would be receiving 55 percent of the subscription revenue, which would be itemised according to their selection of videos. The new contract conditions for partners are already valid since the 15th of June. Though the date of the launch for this service is yet to be announced, Bloomberg has reported it would arrive within the year. 




# The Death Of Internet Explorer, the Rise Of Spartan


**M**icrosoft will soon put Internet Explorer out of its misery with Windows 10 and instead, it would be replaced with the new browser called Spartan. This decision was made in tandem with Internet Explorer's inability to compete with the current browser powerhouses of Firefox and Chrome, when it comes to basic benchmarks such as speed and quality. With Spartan, Microsoft intends to pick up better features such as intelligent features such as allowing you to comment and share websites, or share written notes on an article. The language assistant Cortana is going to be deeply integrated into the browser.

As part of their catch up process, Microsoft intends Spartan to have add-on support and users would soon be able to have a first-hand experience with this browser on the current preview of Windows 10. The title Spartan is not a finalised title yet and may be changed in the final iteration of the browser. 


## 123 GBit Magnetic Tape

**I**BM and Fujifilm have recently just set a new record whereby they had saved 123 GBit per square inch on a magnetic tape. While this may sound complex, but what this means is that about 220 TB of data would be able to fit on a corresponding magnetic tape in servers in the future, which would all be uncompressed. This would be 20 times as much data as a tape would be able to hold nine years back. This storage density would be a prerequisite for further expansion of cloud based services and IBM wants to implement the laboratory record into products within the year itself. 

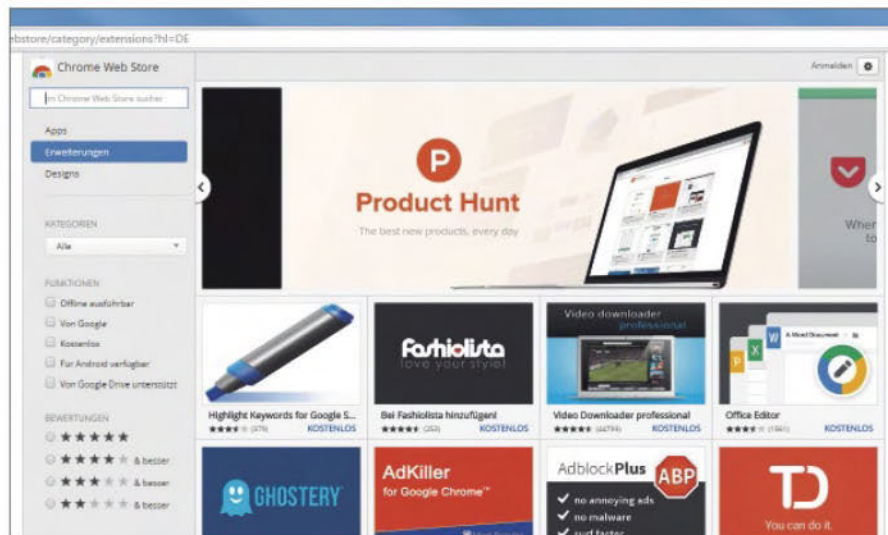
## Drones A Danger For Helicopters

**A**erial drones are fast becoming a popular toy trend, but according to the ADAC, they are also fast becoming a security risk for rescue helicopters. This is what the pilots of rescue helicopters complained about after several near miss incidents. It is reported that in a worst case scenario, drones have the capability to cause helicopter crashes. As such, drone flying is being kept under close watch and scrutiny as research continues on the safety of drone flying. 

## Google Sets Up Cell Network In The US

**S**oon, we might be using not only Google's operating system on a Google smartphone using Google Appsm but also making and receiving calls via Google's network service. This service is due to start in the US primarily, have gotten permission to set up 50 base stations around its headquarters and Product Chief Sundar Pichai has also announced a corresponding project that would be revealed at the Mobile World Congress. Early test results have shown that nearly 200 devices can be supported within its small network allocation. During their experiments, Google uses frequencies that are incompatible with the US so that it does not interfere with other networks. 





In this year alone, Google received more than 100,000 complaints about add-ons, which use Ad Injection

# 14 Million Users Affected by Malware


Google blocks more than 200 browser add-ons which install malware on computers

Together with the researchers from the University of California in Berkeley, Google analysed the data of about 100 million page views via Google services such as the Search feature. The result is appalling: according to it, adware is installed on the computer in case of five percent of all the Internet users – without their knowledge in most cases.

Almost all the operating systems and browsers are affected. The malwares play advertisements and malware with an Ad Injection on the websites, a method, which was also used by the Superfish program on Lenovo computers. What is especially horrible is that every third Ad Injector not only spreads undesired advertisements, but

also malware at the same time.

Complaints from users were clearly the cause of the analysis: more than 100,000 complaints about Chrome add-ons with adware injections were received at Google in Mountain View since the start of the year alone. The company then identified 192 add-ons, which were installed in the case of approximately 14 million Chrome users overall.

These programs were subsequently blocked with immediate effect. In future, Google wants to increasingly search for such software so that it is not released at all in the add-on store. If adware is installed on your computer, you can remove it with a variety of adware cleaners you can find out there. 



## Data Theft Of The Month

### TWITCH: USER PASSWORDS STOLEN

Popular online streaming service Twitch has likely been hacked. The service recently reset the passwords of all its users and informed them about an attack. Twitch has yet to reveal any details about the hack so far, and has yet to confirm if the passwords have been propagated. The only confirmation Twitch gave was that the hacker managed to get into the site's entire password database.

### BRITISH AIRWAYS: FREQUENT FLIER MILES STOLEN

A group of hackers have successfully attacked the British Airways' servers, and managed to gain access to the bonus miles accounts. Some customers have complained that their account status was set to zero through no fault of theirs. BA has confirmed that the attacks have indeed happened, and are looking to restore the miles points of their customers back to where they were. Details regarding the hackers' attacks are yet to be known.

### UBER: LOG-INS AVAILABLE FOR SALE

Thousands of log-in data for the crowdsourced taxi service Uber have emerged on the dark web marketplace AlphaBay, an online eBay-like market where black market transactions happen. The AlphaBay vendor is currently contacting affected users and offering to delete the data for a sum of money. Uber itself has still not taken a stand on the incident. Users of the service should immediately change their password as a precaution.



## Danger Barometer



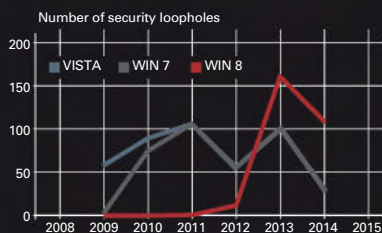
## Open bugs in browsers

Opera and Firefox are the most endangered browsers. Only Opera has still not eliminated 37 percent of the known bugs



## Version 8 is the most unsafe Windows version

A report by Secunia shows that the maximum security loopholes were discovered in Windows 8 in the past years.



## Number of the Month: 14 million

Google Chrome browser users affected by Malware due to malicious browser add-ons

# FORTINET®

## Trouble Over WiFi

Big company cite concerns about wireless network security

A survey recently conducted by Fortinet finds that a majority of Information Technology Decision Makers (ITDMs) have cited that wireless networks continue to be the most vulnerable element of any IT infrastructure. Nearly half of the respondents in APAC ranked it to be the most exposed from a security standpoint, while also unveiling that wireless security is a concern for almost all of the CIOs polled.

These findings come from an independent survey by Fortinet of over 1,490 IT decision makers at organisations with more than 250 employees from 12 countries around the world, including Australia, Canada, China, France, India and Japan, amongst others. All respondents were sourced from independent market research company Lightspeed GMI's online panel.

According to the survey, wireless networks are ranked as the most vulnerable IT infrastructure, with the highest proportion of ITDMs (44%) placing it in their top two. Respondents positioned wireless as significantly more vulnerable than core networking infrastructure, with just 31% of ITDMs ranking this highly. Databases (25%), applications (18%) and storage (10%) infrastructures were considered amongst the least susceptible from a security

standpoint.

In addition, 34% of global ITDMs polled do not have the most basic wireless security measure of authentication in place. A significant 25% and 36% of enterprises respectively, overlook firewall and anti-virus security functions when it comes to wireless strategies.

When asked to cite the risks of operating an unsecured wireless network, 56% of APAC ITDMs considered loss of sensitive corporate and/or customer data as the biggest risk to their organization, in contrast to the Americas at 45% and EMEA 42%.

The next highest risk, industrial espionage, was cited by just 18% of ITDMs, followed by non-compliance to industry regulations (10%), damage to corporate reputation (8.2%) and service interruption (7.2%).

When considering the future direction of their wireless security strategies, the majority of respondents said they would maintain focus on the most common security features – firewall & authentication, while demand for more security is emerging with 22% prioritizing complementary technologies – IPS, anti-virus, application control and URL filtering - to guard against the full extent of the threat landscape. 

# Crowdfunding Over the Internet



*Funding is a main driving force for many companies in seeking capitals from venture capitalists and angel investors. However a new avenue of funding source has emerged - crowdfunding.*

*By Edwin Lee Yong Cieh*

**A practising lawyer specialising in telecommunications, media & technology law, Edwin is in a constant effort to educate users on the many legal happenings in the IT world**

Imagine this: You have got a brilliant business idea and you want to roll it out to the market, but you lack the required capital to kick-start the business; or your financial adviser tells you not to “put all your eggs in one basket” as that is a recipe for failure, so you look for other ways to invest your hard-earned money; or you are a successful entrepreneur and you want to develop a platform to help other ambitious entrepreneurs who have dreams but lack of funding.

If you had been to websites such as Kickstarter, Indiegogo, GoFundMe or our homegrown website PitchIN, then you would have probably heard about crowdfunding. In the simplest terms, crowdfunding offers a new way of raising funds whether for business or philanthropic purposes. The funds originate from a crowd of individuals, who invest into a cause/business/project that they believe in.

There are essentially 4 main types of crowdfunding: rewards, donation, lending and equity crowdfunding. The first 2 are unregulated while the other 2 are regulated, mainly because they deal with complex issues such as money-lending and trading of shares. This article focuses on equity crowdfunding (“ECF”).

In February 2015, the Securities Commission of Malaysia (“SC”) released a new Guidelines to facilitate ECF (“Guidelines”). The Guidelines seek to strike a good balance between the benefits of crowdfunding and its risk to the public. Following the issuance of the Guidelines, the SC announced in June 2015 the approval of 6 registered ECF operators (Alix Global, Ata Plus, Crowdonomic, Eureeca, pitchIN and Propellar Crowd+) who are expected to start operations by the end of 2015.

The SC describes ECF as “a new form of fundraising platform that allows startups or other small-and-medium sized enterprises (“SMEs”) to obtain funding through small equity investments from relatively large number of investors, using online portals to publicise and facilitate such offers to investors.” The investors receive shares or stocks in return for their investments and can expect a return in the form of



dividends if the company performs well.

## The ECF Platform Operator

A person who wishes to operate, provide or maintain an electronic ECF platform (“Operator”) must register the platform with the SC. The Operator must be a locally incorporated company or a limited liability partnership formed in Malaysia.

In order to register an ECF platform, the Operator must exhibit to the SC that it will be able to operate an orderly, fair and transparent market; its board of directors, CEO, COO, CFO, etc must satisfy the fit and proper test; it will be able to manage any risk associated with its business and operation; it will appoint at least one responsible person in compliance with the Guidelines; it will be able to take appropriate action against a person in breach; the rules of the ECF platform comply with the requirements of the Guidelines and that it has sufficient financial, human and other resources for the running of the ECF platform at all times. The SC places great emphasis on the security and integrity of the ECF platform’s IT system as it requires the Operator to put in place adequate security measures and hire sufficient and capable IT and technical personnel to maintain the system.

An ECF platform essentially works like a stock market or a derivatives market that connects entrepreneurs with investors. As such, the SC sees it fit to require the Operator to carry out a due diligence exercise on prospective issuers; monitor conduct of issuers, investment limits of investors and any money laundering activities; carry out investor education programmes as well as protect personal data of individuals in accordance with the Personal Data Protection Act 2010.

## The Issuer

A person who wishes to list his project on an ECF platform (“issuer”) must first incorporate a local private company. In terms of the limit to fund raised on the ECF platform, the Guidelines say that an issuer can raise up to RM3 million within a 12-month period, irrespective of the number of projects an issuer may seek funding for and a total of RM5 million through the ECF platform.

Raising money from complete strangers is never easy. The issuer will need to come up with a strategic business plan to effectively market and promote itself and its project. First of all, the issuer must choose the right ECF platform to do its listing as it is not allowed to list on multiple ECF platforms concurrently. It should also target a specific pool of investors if the project is a very niche one. For example, if the project is about healthcare related product, it should first target people from the healthcare industry as they would be more inclined to invest in products or services that will improve or add-value to their field.

Most of the crowdfunding platforms adopt the “all-or-nothing” model i.e. if the issuer fails to raise the targeted investment amount by the deadline, the fund raised will be returned to the investors and the issuer will get nothing. That is why it is so important to have a strong, well-executed plan,

as projects listed on an ECF platform can go by really quickly, especially when there are dozens of other projects listed on the platform at the same time, all vying for attention.

The issuer should develop an attractive name, a convincing description and an eye-catching image as part of the project to help the project stand up from the pool of projects. The pitching message must be creative and concise enough to grab people’s attention. Getting listed on an ECF platform is just the beginning. The issuer will need to treat fundraising activity very much like how politicians run their political campaigns, and it has to continually drive traffic to its project page through social media, email marketing and other communication tools to engage with its potential investors.

In this Internet age, great ideas spread viral very easily and broadly. Make good use of the Internet to reach out to large audiences. Highlight the potential ROI from the project. Show the investors how the fund will be utilized. Practice transparency as that is the key to gain confidence from the investors.

## The Investor

Anyone can become an investor subject to certain restrictions. If you are a sophisticated investor (i.e. accredited investor, high-net worth entity or high-net worth individual), there is no limit to the investment amount; if you are an angel investor (i.e. an investor accredited by the Malaysian Business Angels Network), you can invest up to RM500,000 within a 12-month period; and if you are a retail investor, you can invest up to RM5,000 per issuer with a total amount not exceeding RM50,000 within a 12-month period.

The Guidelines also put in investor protection mechanisms whereby the Operator is required to ensure that any fund raised in relation to a listing on the ECF platform must be kept and maintained in a trust account until the targeted amount sought to be raised has been met. Investors are given a six (6) day cooling off period within which they may withdraw the full amount of their investment. If there is any material adverse change relating to the offer during the offer period, the investors must be notified of such change and will be given the option to withdraw their investment if they choose to do so.

The release of the Guidelines marks a progressive milestone by the Government in bridging the gap between investors who want to invest in startups and entrepreneurs who have great projects but lack of funding. This will certainly help Malaysia to create a thriving entrepreneurial ecosystem.

Disruptive technologies have changed the way we live and do business. The emergence of ECF is another innovative example of how technologies are disrupting the traditional means of funding, democratizing access to capital as well as offering up more investment opportunities to everyone. 📌

*The view expressed in this article is intended to provide a general guide to the subject matter and does not constitute professional legal advice. You are advised to seek proper legal advice for your specific situation.*



## The Three Keystones of Net Neutrality

- 1 No blocking** Internet Service Providers must not block legitimate services and websites arbitrarily
- 2 No curbing** All data must be transferred at maximum possible speed on the internet
- 3 No paid preference** Providers should not give preference to selective content providers with exclusive contracts

**“The Internet is based on the principles of openness, fairness and freedom”**

Barack Obama, US President

The American network regulatory board FCC (Federal Communications Commission) passed a resolution on the insistence of US President Barack Obama in February 2015 to ensure that internet service providers in America are on the same level similar to telephone companies and ensure contribute as a utility company in favour of the public.

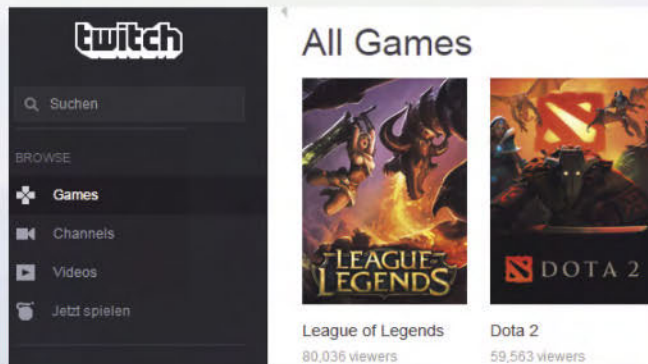
The new resolution will now see these ISPs treat all users and service providers equally in the name of free competition. That being said, this regulation is still not effective just yet as these ISPs are looking for ways to circumvent the rules in order to keep business in their favour.

## Net Neutrality – That’s what it’s all about



### Equality

Net Neutrality says that every service needs to be treated equally by Internet providers, and must not block competition to give an advantage to their own offers.



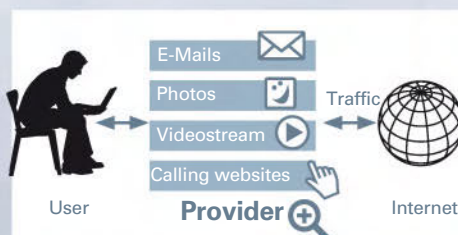
### Ability to Innovate

If ISPs are given the permission to regulate internet content arbitrarily, this puts new internet services at risk. New services generally disrupt existing services by getting a lot of traffic, but generally don't have money to buy into the provider's network for stability.



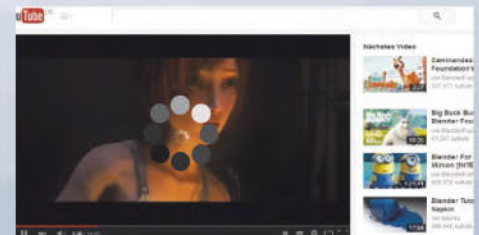
### Stable Prices

Internet providers should not be middle-men to web services for customer-related issues. The costs racked up would have to be shouldered by the users, resulting in them having to pay more.



### Data Protection

In order for ISPs to prioritise and discriminate specific data, they must first be able to screen the content users are browsing. For the government, this is a worst case scenario breach of online privacy.



### Quality Protection

Network operators want to curb streaming services in order to protect their cable network service. As a result, the quality of your streams will be lowered thanks to lag and low quality output, even on a high-speed DSL service.



# Net Neutrality Issue

*Who should decide what to view on the Internet? Not the providers – this is the aim of net neutrality* By Frederik Niemeyer


No one watching was surprised. Just as the singer of the rock band Pearl Jam was criticising the US government, an unusual silence lingered about for a while. The internet provider AT&T had unceremoniously turned down the volume of the live webcast it was hosting.

This is an extreme example of the matter, but it shows why net neutrality is important and what can happen if ISPs are given absolute authority on the internet. The Internet is public property, and network operators should not be

allowed to discriminate against the content. They need to treat everything and everyone equally, regardless of what is being shown or written on the web. This is the US' idea of net neutrality, and what it has put in place.

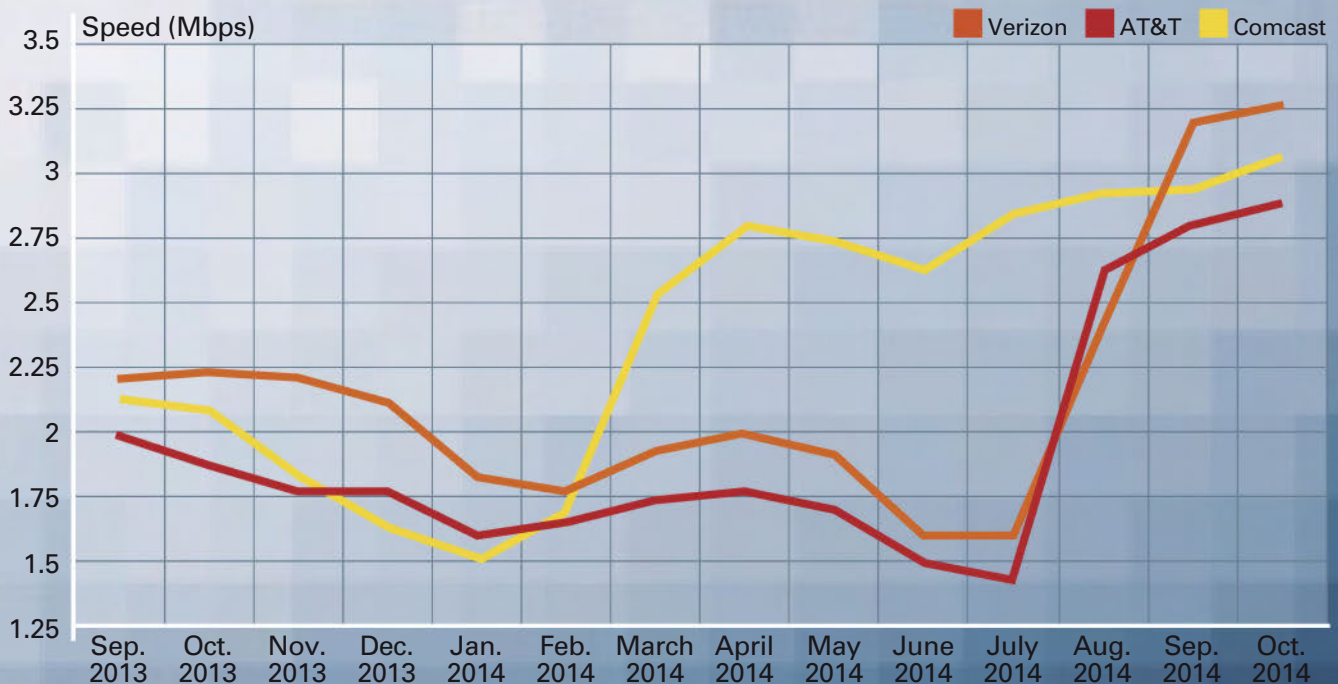
In Europe, the regulation is currently being hotly debated by members of the EU. The EU Commissioner for Digital Economy and Society, Günther Oettinger, recently placed network activists on the same level as Taliban. Telekom is warning of a "state-dictated Uniform Law" and suggesting web

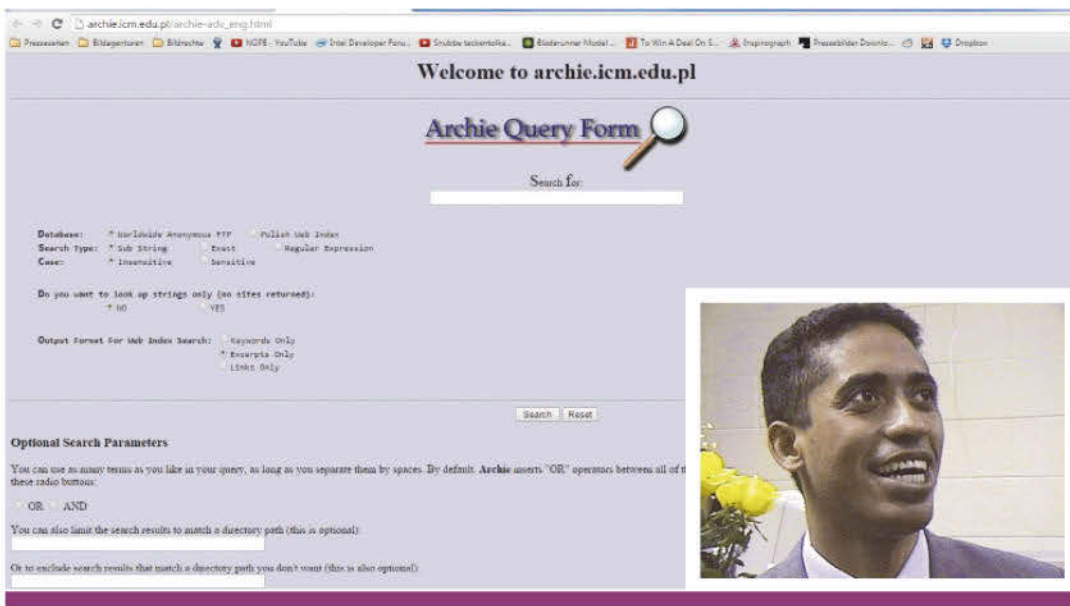
services to give providers a share in the turnover for maximum speed.

In its discussion about net neutrality, Oettinger and Angela Merkel are demanding exemptions for additional services, which network providers should be allowed to prioritize. However, the term is defined rather vaguely and should protect data transfers in medical and traffic engineering among other things. Such sensitive services however use their own infrastructure. 

## Digital toll: Netflix must pay extra for high speed

In the USA, the large network operators have put the Netflix customers at a disadvantage targetedly and systematically. The speed was increased only after the streaming provider paid up.





1990 1991 1992 1993

1992

### Archie

The world's first search engine. Archie (as in Archive without the v) by Alan Emtage looks for files and directories on FTP servers. To gain access, one has to dial into a Telnet.

### Google

Superior technology: Google took the market by storm. Price at the time of initial public offering in 2004: 27 billion US dollars

# CHIP TIMELINE

# Internet Search: Order In The Midst Of Chaos

*Search engines are the light towers among the sea of digital data. Without these helpful engines, the Internet would be a mass of convoluted data that would take years to sieve through. This month, we provide you with a brief history of the web engine*

Search engines are the bridges that connect the user to the information they require, and this is done through complex algorithms to index and interpret billions of websites. A market researcher says that while 95 percent of web surfers typically use Google as their

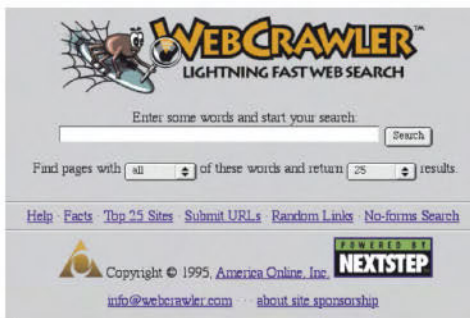
main search engine, but this wasn't the trend until the late 90's because Google as it were, was a late entrée to the search engine party.

The first search engine was called Archie and it was programmed in 1990 at McGill University in Canada. It was a

database that could be queried using telnet which allowed for searching for files and directories within the FTP servers. The modern equivalent of a search engine was more prevalent in 1991 under an information service called Gopher. It has already started using Boolean operators

PHOTO: PRIVAT (PORTRAIT ALAN EMTAGE)





1994

**Webcrawler**

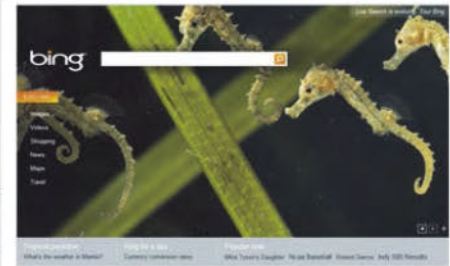
A milestone: the first search engine, which indexed complete websites and dominated full text search



1998

**Google**

Creator of the PageRank: the number of referral links determines the relevance of a page. A large chunk of users in Malaysia use Google



2009

**Bing**

Microsoft's search engine stemming from MSN Search takes Google head-on – and loses. Still, it manages to boast of a market share of about 19 percent in the USA.

1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

1994

**Yahoo Search**

Starts as a simple catalogue and continues to grow, till a search function had to be added



1996

**Yandex**

The largest search engine in Russia today with more than 10 billion indexed websites

Яндекс  
Найдётся всё



2008

**DuckDuckGo**

The official user numbers explode: DuckDuckGo promises data and personal privacy. Is one of the standard search options in iOS 8.

such as AND, OR and NOT for linking and leaving out search terms.

Search engines experienced their first real boom between 1993 and 1997. The search engine Excite was brought to completion by six students and was shortly sold for 6.7 billion U.S. dollars, while in 1994 saw the launch of AltaVista and Yahoo search as well as Webcrawler. Which was a milestone in search engine development as it provided page indexing for the first time and it also enabled full text searches. Other popular search engines

during these times were Lycos, Fireball and AskJeeves, whereby the latter met a tragic end with the now infamous Ask-Toolbar.

Google only entered in 1998 with Larry Page and Sergey Brin entering the market with their latest PageRank technology which evaluates the links to websites to determine the relevance of the website with the search. Google proved to be vastly superior when compared to its competition and when it went public in 2004, the company was listed at 27 billion US dollars. Another honourable mention from 1998, is

Microsofts MSN search based on a third party technology. As Google continued to trump its competitors, Microsoft decided to rename their search engine to Bing under a new methodology.

Today, Google rules both the US and European markets, whereby Yandex is the largest search engine in Russia, and Baidu conquers China, while nowadays there are some who shy away from Google as they fear for their privacy and rely on alternatives such as DuckDuckGo and Ixquick. 🚩

# The Perfect Workplace

*Back tension, burning eyes, and headache are one of the few things that those who spend long hours at the PC would recognise. These problems are easily avoided with a few tricks that we are about to share with you this month. These are some of the factors that can help you create your perfect workspace* By Fabian von Keudell

## 1 Light Sources

Natural light is good for your psyche and body, but it can be disturbing when it appears at odd angles in the workplace. The workplace guideline of professional associations show that optimal light ratios should be monitored and they advise that it is best when the workplace to be at a right angle to the window. In case sunlight streams inside, it is important that you install sun blinds. Light intensity of 500 Lux is recommended for workplaces however, in the evenings, 750 Lux is the recommended number. Make sure that closed blinds are reopened if the glare has gone down from the sun.

**Recommendation for natural sources of light:** Bright walls can support the light exposure of a room if necessary. Don't make changes using coloured window films as that may reduce the positive effect of sunlight on a human body.

**Recommendation for artificial source of light:** The official guidelines from professional associations recommend sources with a colour temperature of 4000 Kelvins which is a daylight white colour.

## 2 Seating Position

Seating position is another important feature when working on your computer during long hours. You should seat in an erect position to prevent back problems, and this should be done with the back against the back of the chair while the knees hips and arms should be kept at a right angle. Your feet should stay flat on the floor, and by doing this, you should get the optimal chair and table height.

**Recommendations:** When purchasing an office chair, you should make sure to check for adjustable back and arm rests. These kind of chairs are usually affordable.

## 3 Screen and Keyboard


Once you have discovered your optimum seating position, you should now take care of your monitor and keyboard arrangements. For the monitor, set it at a height that sets the screen level to your eyes then tilt the display until you are looking directly at the device. Following this scenario, the screen should be 50 to 80 cm away from your eyes. Finally, set the keyboard as such that it is 10 to 15cm away from the edge of the table.

**Screen recommendation:** A good monitor should not only be easy to tilt but the height has to be adjustable as well. For those who are handling a lot of text work, turning the monitor to an upright position improves your vision range. You can also set the monitor with the help of test images which can help you identify and distinguish all grey scales.

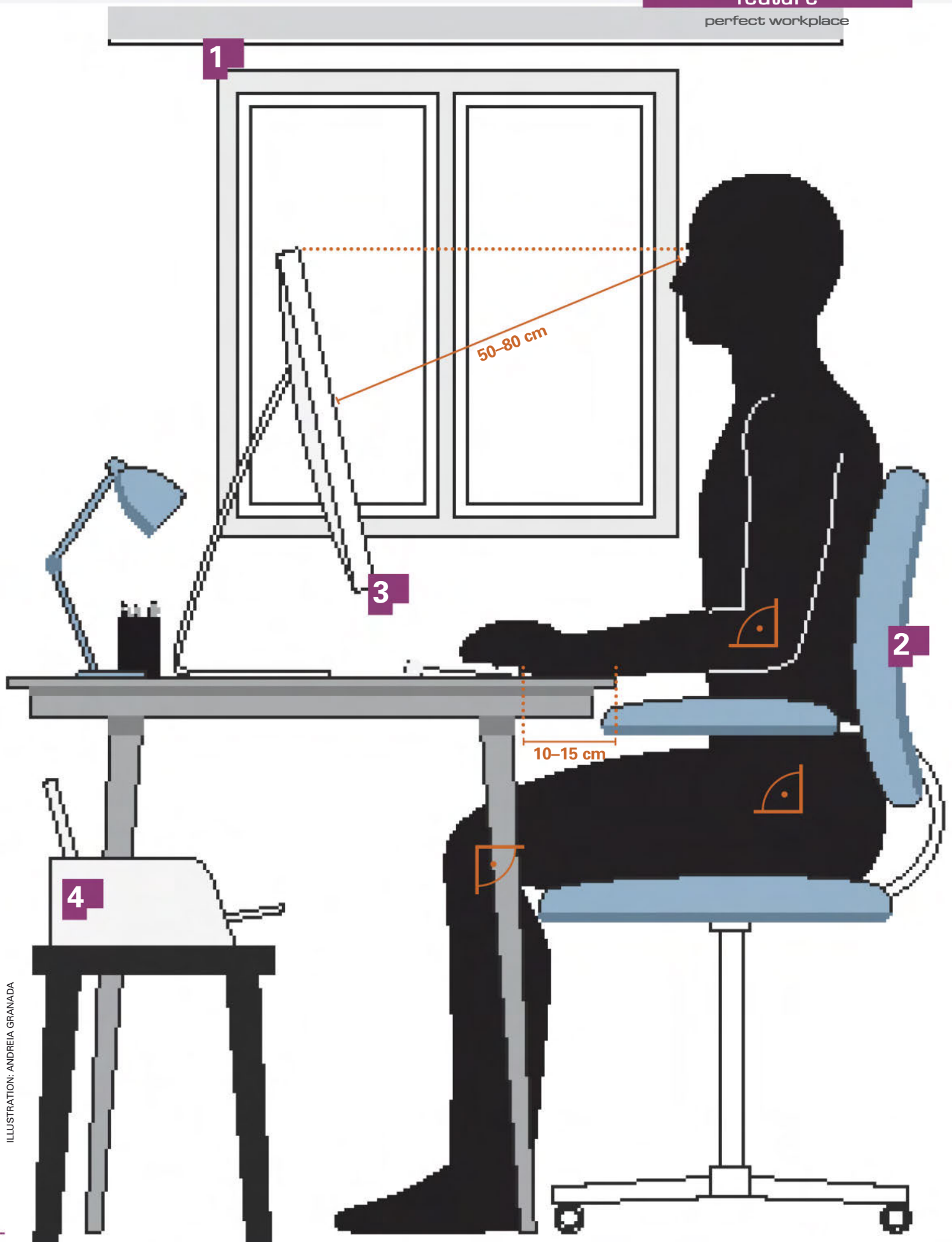
**Keyboard recommendation:** For those who are constantly typing text, one must find an ergonomic keyboard. The keyboard must be able to keep wrists straight and for the normal keyboard, you would need to find an alternative to do that such as a cushion or stand.

## 4 Printer

While the extent of health dangers that are results of fine dust from the printer is yet to be established, the Federal Agency for Industrial Health and Safety advises frequently used printers in workplaces should be placed in well ventilated areas while less frequently used devices be kept under a table.

**Recommendation:** While buying a workplace printer, look for the "Blue Angel" badge. Devices that have this seal, have a strictly inspected, lower particle emission. 





# Checking Out Office 2016

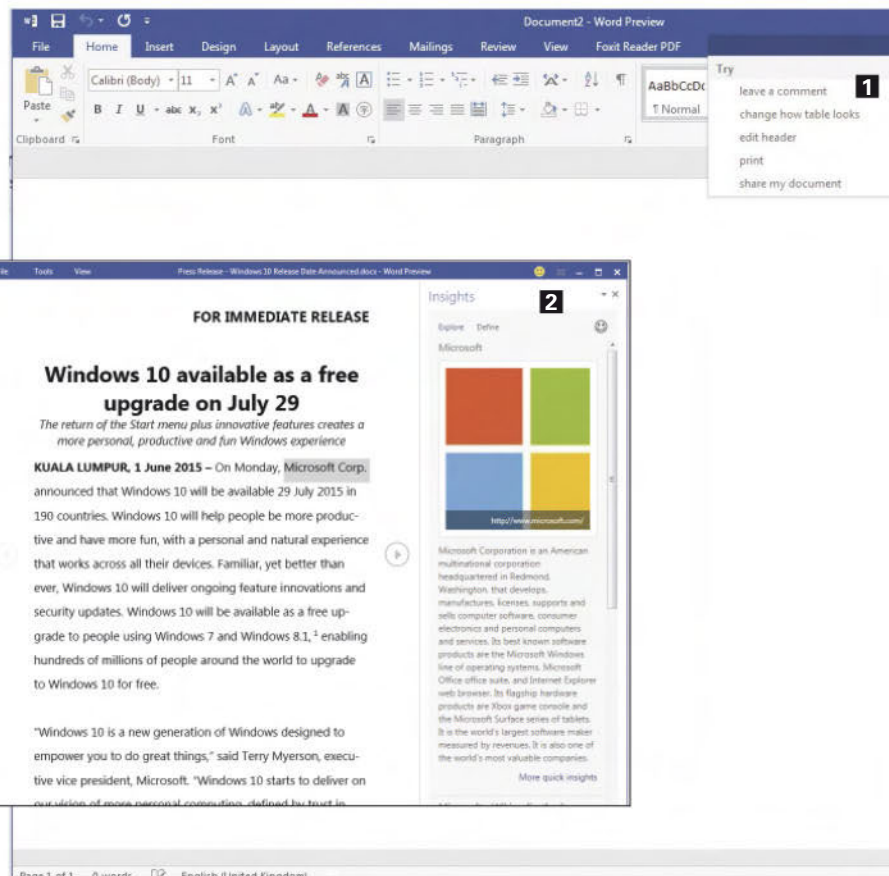
*Your bog standard Office is now completely touch-optimized and equipped with useful features. Sadly, desktop users are still faced with the same features* By Fabian von Keudell

Two versions of Microsoft Office will be offered in the near future – “Office 2016” for the desktop version and the “Office for Windows 10” touch version. The focus was on the development of the touch version, which is completely optimised for touch operation. This is in line with the announcement that the Office suite will be pre-installed free of charge for new tablet with screen size of less than ten inches. This touch version of Word,

Excel etc. is available as a program download in the Windows 10 App-Store. The Apps are however not intended for high productivity, but serves only as a viewer and editor for minor changes. Ultimately, the Apps are enhanced versions of the already existing Smartphone applications of Microsoft. Users who use a mouse and keyboard should continue to use the desktop version. According to insiders, it will be available in a Home&Student

version and as a subscription model. The prices are said to be oriented towards the predecessors: Home version €139 (~RM580), subscription model from €7 (~RM30) per month. The touch and desktop versions will come out in October together with Windows 10 – according to leaked information. We have already subjected both early versions to an initial check – and were positively surprised.

## Word: Extremely Practical Function Search



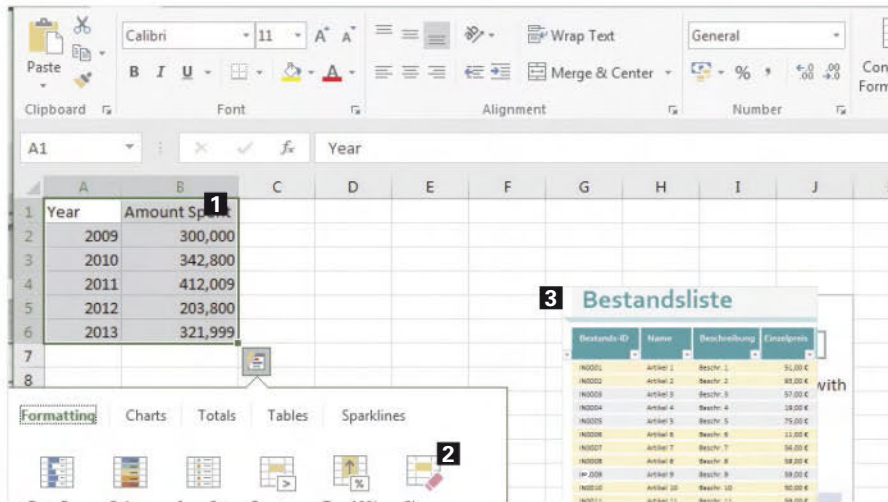
**1 Function search** Since the introduction of the Ribbon, users are complaining in Microsoft Office forums that they can longer find functions easily. The new Tell-me Wizard of Office 2016 rectifies the problem with an extremely helpful search - you can enter freely formulated questions in the Tell-me input line, e.g. “How can I insert a footnote?”, which then displays a direct link to the function

**2 Online reference work** In Office 2016, the dictionary function has been further optimised. With the “Insights” feature, Word searches for the definition of the searched term on Bing. Practical - the actual text is used as context so that the results perfectly match the search term. Such a feature was available only in Office 365 Online before – now the offline version too will get the Insights search function.

**3 Tablet Read mode** With the optimisation for touch devices, a new Read mode will also be introduced in Word – however, only in the version. The word processor thereby displays the document in full screen. Just swipe, and the user can then leaf through the pages. Useful; the screen keyboard can be locked so that the keyboard will not slide out every time the display is touched.



## Excel: Creating Diagrams With The Tip of a Finger



**1 Intelligent selection** In Excel, users who are using a touch device can now select cells more easily. If you touch a cell, Excel identifies the associated cells on demand and can create an interactive table from it for instance.

**2 Recommended charts** In Excel 2016, Microsoft offers the "Recommended Chart" feature for touch users. Excel displays the suitable charts automatically with the help of the selected cells – very useful time saving in everyday life.

**3 Upgraded pivot tables** With the 2016 version, Excel now offers support for upgraded pivot tables. In this case, the data sources can also stem from different Excel tables. Moreover, the appearance of the new tables has been upgraded.

## Powerpoint: Transferring Formats Easily

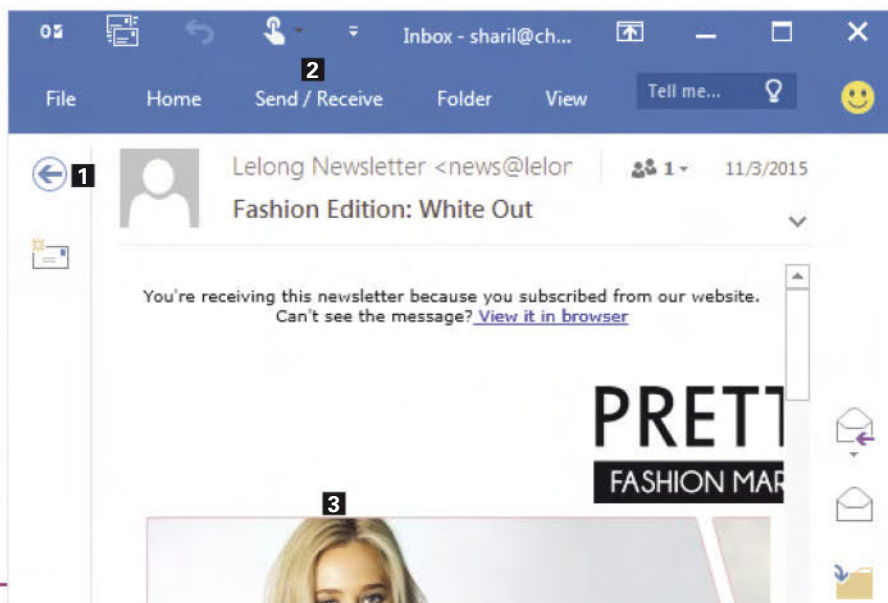


**1 Comments with a pen** In PowerPoint 2016, the user can add comments via pen input in full screen display. Users can then decide at the end of the presentation whether the tool should save the additional information in the slides.

**2 Transferring formats** In the new PowerPoint for Windows 10 version, formats of an object are much easier to transfer to other objects via Touch; a pop-up menu with the corresponding command appears at the touch of a finger.

**3 Data protection for Admins** The "Data Loss Protection" function can be used by Admins to specify the manner in which PowerPoint presentations can be released on the web. This should help in preventing data leaks.

## Outlook: Flexible Adjustment to the Window Size



**1 Automatic size** If the sizes of the Outlook window changes, the appearance and behaviour of the program can now adapt to the new size. In case of a small window, Outlook somewhat resembles a cell phone mail client with a Back button.

**2 Better synchronization** In previous versions, all the emails, which were less than a month old, were synchronized automatically. In the 2016 version, the user can now finally define the time period to save archived emails.

**3 Automatic orientation** Pictures clicked on cell phones are now displayed by Outlook in the correct alignment. For this, the program interprets the alignment information embedded in the pictures. 📷



# Device Espionage

*Caution - many device manufacturers today build functions that can collect secret information about you. CHIP shows you how to protect yourself from device spying*

*By Jörg Geiger*

**W**hen you think of data espionage, the first thing that comes to your mind will probably be the NSA. You might also think of hackers or new wiretap laws. But don't lose yourself in the trees, because a very disrespectful type of spying is going on right now in your house - some device manufacturers build in spyware in PCs, notebooks, smart TVs, smartphones and tablets.

One example is Lenovo. For months, the notebook manufacturer has pre-installed the adware Superfish in its devices.

Whenever a website is loaded, a process by the name of Superfish Visual Discovery starts. It checks all images on the websites and inserts matching purchase options. The brazen advertising tool has a wicked problem, because a massive security loophole is hiding in Superfish. Lenovo is not installing Superfish anymore, but you should not wait till the next spying by a manufacturer is detected. CHIP will show how you can effectively block spyware in different devices.



# Adware on the Computer

Superfish was, so to speak, the worst case scenario of pre-installed tools in new notebooks and PCs. Not only is the user spied upon, but the adware also features a separate and poorly protected root certificate, which third parties (read: malicious hackers) could exploit. Indeed, there are tools that get rid of this adware, but the problem is that almost all manufacturers of new PCs and notebooks do not just pre-install Windows, but also a number of other tools, which usually contain security loopholes or spying applications.

## Solution: set up Windows again

### 1 Get drivers and product key

Reinstalling Windows in a new device sounds absurd. But new devices don't usually come with a fresh Windows installation - rather, one that is already bloated. Tools like the Freeware Decrap promises to easily get rid of bloatware. But that does not happen in most cases. Therefore, reinstallation is the better option. First, get the current driver for your device from the manufacturer's website. Most important in case of notebooks - pay attention to the device name, because there are many similar devices that differ only in some components. The most secure way is to look for the matching driver through the model number. You also need your Windows serial key. If your device comes with a certificate of authenticity, you have this Windows key black on white. You can read this number from your system with the Windows Product Key Viewer.

### 2 Get original Windows

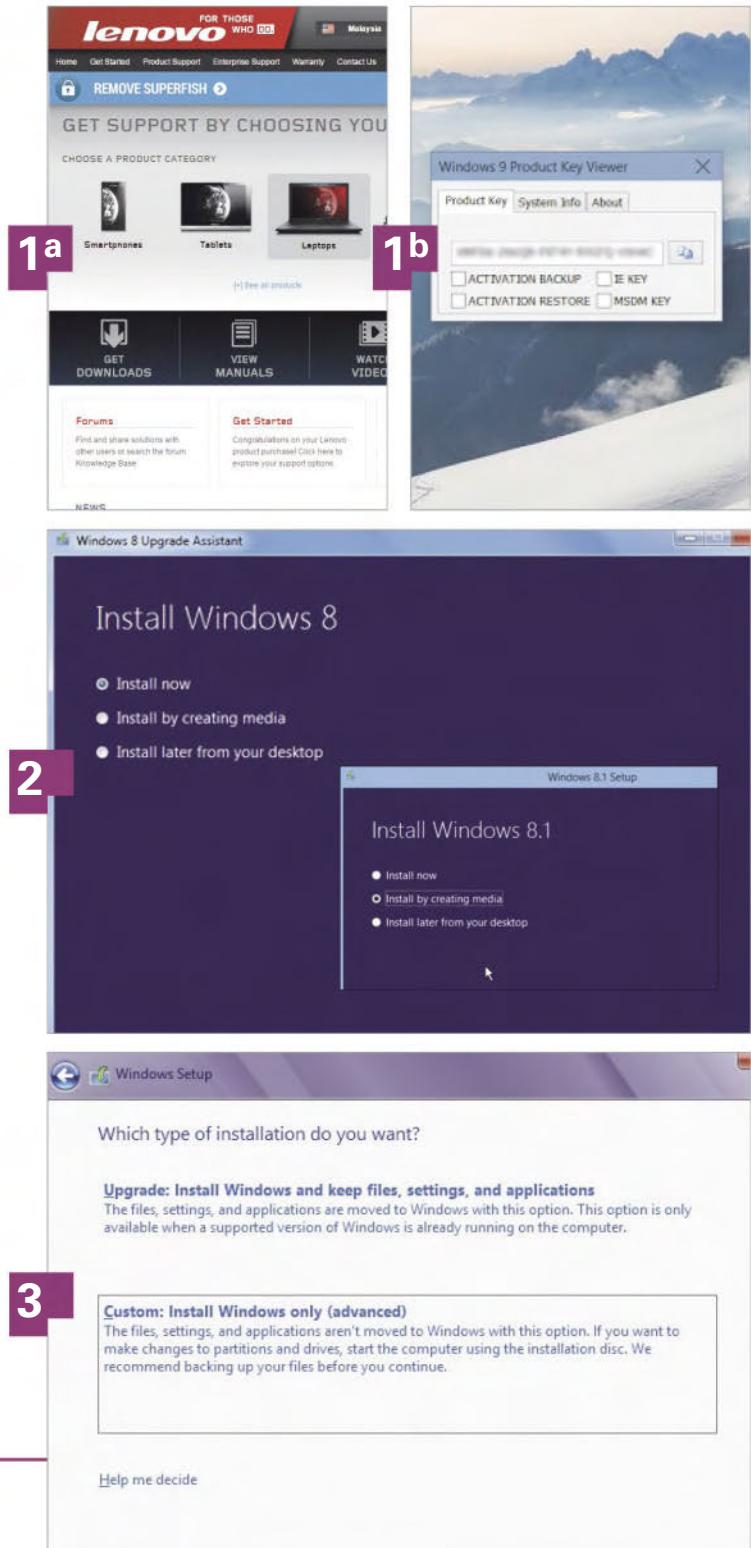
An authentic Windows DVD is usually not given now when you buy new hardware; mostly it is just an emergency system in the recovery partition. The problem is that if you use it to restore Windows, you will reinstall it with crapware. You need original Windows for a clean start. Users of Windows 8 or 8.1 need Windows 8 Setup Tool for that. Caution: this tool is available in two versions for both the Windows versions. For this, you must feed both tools beforehand with your product key. You can create a bootable USB stick in the tool itself or even burn a setup DVD. It is trickier in Windows 7. Microsoft has recently set up a website for them. The problem is that this website provides Windows 7 only if the customer has purchased a full version. OEM versions are excluded. You could also borrow an installation DVD and set up Windows with your serial number.

### 3 Install

Boot your device from the original Windows, using the USB stick or DVD, and start the clean installation, wherein no data is retained. This is normally done in setup if you opt for "User defined" in "Installation type" and then simply go on clicking next. If Windows does not detect all the devices automatically, go in the device manager and help using the loaded drivers (step 1).



Lenovo had pre-installed the adware Superfish in most notebooks like the Yoga 2 Pro, which scanned images on surfed websites and then inserted matching advertisements





# Control your Smart TV

Televisions and other home entertainment devices are nowadays equipped with Internet connection. Spying is also done here. For example, Samsung. When speech recognition is used, all words are transmitted to a third party provider. Also, when users are watching local videos on particular TV models, they are suddenly interrupted by advertisements. They did made apologies on this matter. But, the bottom-line is, TV manufacturers are not exactly bothered about security. Almost all smart TVs have a unique device identification which is also transmitted online. Furthermore, data flows automatically right after the device is switched on, when apps and electronic programme overviews are called while using online services, and also when local files are played.

## Solution 1: Stream in a roundabout way

### 1 Take your TV offline

What makes TV espionage so unfair is that smart TVs are closed systems on which the user has little influence or control. However, some features can be switched off. Blocking in the router would be one way of forbidding Internet access of the television, but allowing local access to media server - but that is complicated and prone to errors. The most radical solution is to completely cut the Internet connection of your TV. That is, pull out the network cable and deactivate the WLAN.

### 2 Connect the computer directly with the TV

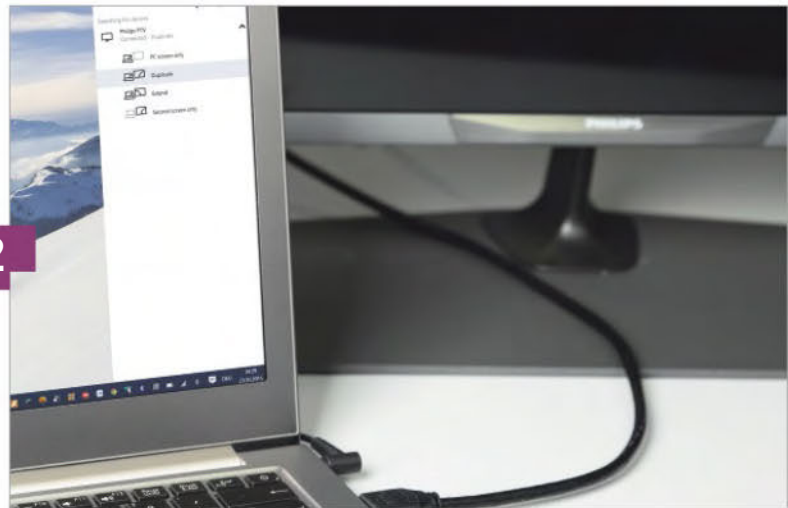
But how to play back videos from the home network or use streaming services like Youtube and iFlix without WLAN and Internet? A practical and cheap solution is to let this be done using the PC or notebook. Using the shortcut [Windows]+[P], you can transmit the screen output to the television (see image). This connection is done with just a single HDMI cable from the PC to the TV.

### 3 Use streaming devices

Just a tad bit more comfortable than the HDMI cable is streaming contents via a streaming stick, like with Chromecast by Google (about RM120). This stream receiver is inserted to a HDMI port at the TV and accessed via apps. But beware; this also results in a tiny loss of privacy. You can, of course, operate Chromecast without a Google account and can also stream without Internet via WLAN, but you have rely exclusively on local contents and you will need the Chrome extension Google Cast. As soon as you want to personalize Chrome Cast, it becomes necessary to log in with a Google account.



Some smart TV models abruptly interrupts video playback from the home network with advertising clips – apparently it was dismissed as a technical error



## Personalize your Chrome

### Sign in to Chrome and take your web with you

Get to your bookmarks and apps from any computer

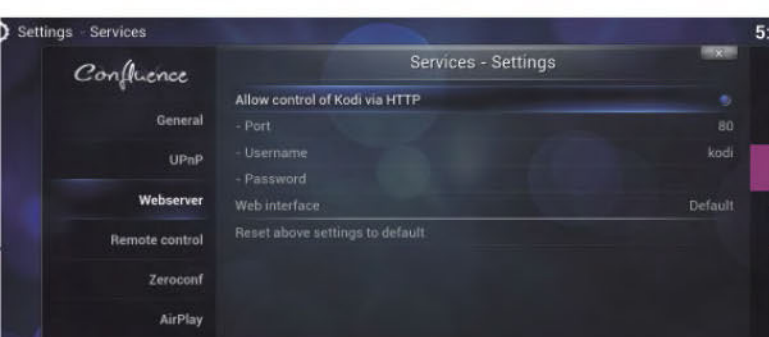
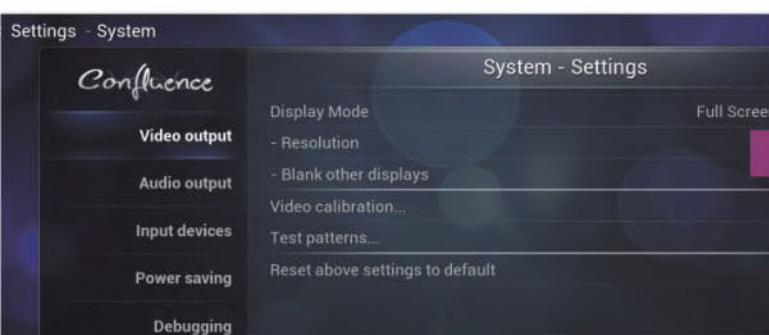
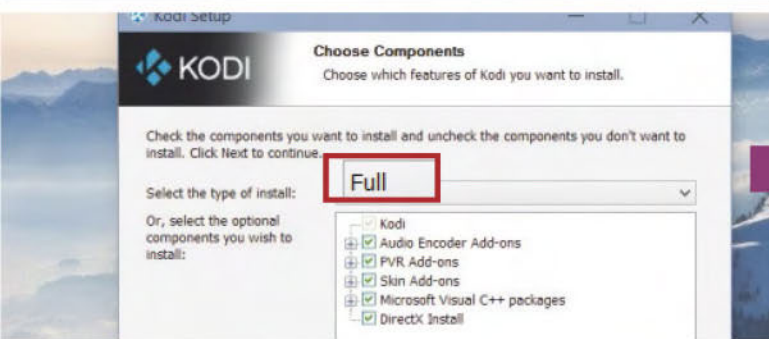
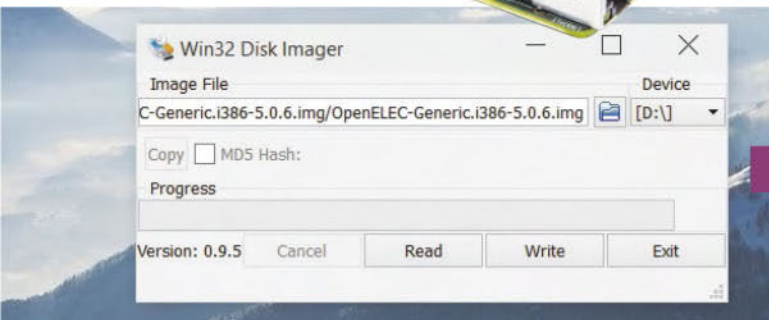
To start syncing your browsing information to your Google Account, just click the Chrome menu (three dots) and select **Sign in to Chrome**. All your info is stored in your Google Account, which you can manage from [Google Dashboard](#). Any changes you make within Chrome on one device will be synced to all your other devices where you're signed in to Chrome.

#### Choose what you want to sync

Easily control the kind of information you're syncing to your account. Click the Chrome menu and select **Signed in as**. Then click **Advanced sync settings** in the "Signed in" section to change your settings.

#### Have your personalized copy of Chrome

If you share a computer with someone on a regular basis, add new users within Chrome to keep your browsing settings separate. User profiles are also handy if you want to keep your work and personal browsing settings separate. To create a new user, just click the Chrome menu, select **Settings**, and click **Add new user** in the "Users" section.



## Solution 2: Set up a media centre

### 1 Look for matching hardware

Those who are serious about the end of the smart TV spying, but still want to enjoy the full video experience should set up a media centre. You have two options here - either keep your existing PC in the living room or get yourself a special computer suitable for the living room. Intel has somewhat interesting devices with the NUC series (Intel NUC-Kit D54250WYK), however a Raspberry Pi Model B performs very good as a multimedia device. Both are connected to the TV via HDMI cable.

### 2 Select the operating system

The NUCs by Intel are powerful enough for Windows and are delivered with it out from the box. You can then set up your media centre on it. There are other solutions for the Raspberry Pi. OpenELEC is a combination of a streamlined Linux and media centre. The software is free and only has to be unpacked and written with a tool like Win 32 Disk Imager on a microSD card. Simply select the OpenELEC file in "Image file", enter the memory card as "Device" and click on "Write".

### 3 Install media centre

Kodi, formerly XBMC, is our recommendation for media centre software. It is already integrated in OpenELEC and installs itself automatically in the RasPi with the operating system. For Windows users, Kodi is also available as free download. A standard installer guides through the set up. It is recommended that you let the setting be "Full" while installing.

### 4 Configure basic settings

Kodi is operated using mouse and keyboard. Those already using RasPi, should access the settings menu using a USB keyboard, at least for the basic configuration. Through "System | Settings" and the menu item "Appearance", one can climb hand over hand to "International", and set the language to "English". You can allow full picture mode for the display in "Video Output". To become fit for streaming, you must activate all in "Services" at "UPnP", likewise in case of "Zeroconf" and "AirPlay".

### 5 Get contents

An important step is linking the multimedia files. For example, videos can be on a NAS drive in the network. In Kodi, you can easily integrate network shares via "Videos" and the item "Files". In the menu, click once again on "Files" and then on "Add videos". Load the possible sources using "Search". You must now also specify which contents are being referred to; films or music. Kodi then searches film databases and correctly tags the videos found. Depending upon the video collection, the indexing could take a little time.

### 6 Smartphone a remote control

You can easily set up your mobile for remote control. The free app Yatse lets you do that in Android, and there is Sybu for iOS. For this, you must allow the control via HTTP in the service settings for the item "Webserver". If the search is not automatic, enter the IP address of the PC with Kodi.



# Treacherous Smartphones

The normal user can't really make changes to their mobile operating systems. Bloat pre-installed apps, hard to reach settings and such are the bane for smartphone users. Moreover, smartphones by Apple, Google & Co. are linked to user accounts. The magic formula against that are Jailbreaks. As many users do not want that, we show the spying that you can stop without resorting to using jailbreaks.

## 1 Press the mute switch on Android


A nice option to dampen Android's curiosity is using it without a Google account. Just during the initial set up, when you are asked the question whether you have a Google account, you can reply with "No" and deny creation consistently by tapping on "Later". If an account is already created, look for it in "Settings" and then tap on "Remove account" (1a).

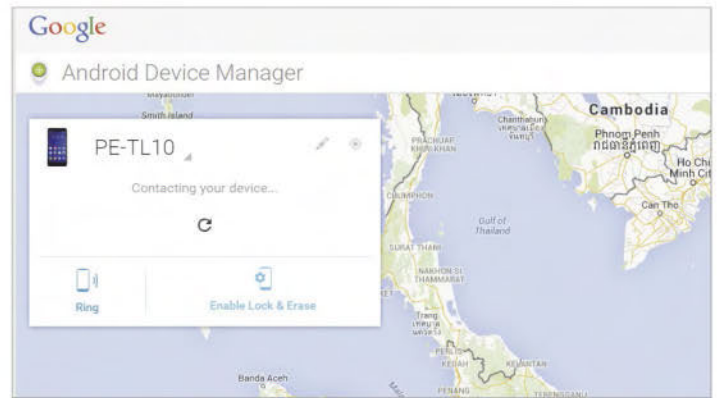
Even if you don't do that, you have options. The tricky point in smartphones is WLAN tracking. Switch off the WLAN when you do not require it. But even then Android sends so-called probe requests, which, Google says, is for improving tracking. You can switch this off in the advanced WLAN settings via "Scanning always available" (1b). Also, change to "Account | Google" in "Settings". In "Ads", set the item "Opt out of Interest-based ads" (1c). In "Location", set the switch to "Off". In "Settings | Save & Reset", you should switch off the item "Save my data", otherwise Android saves app data, WLAN passwords and other settings to Google servers.

## 2 Tame iOS

Even the basic settings of iOS 8 are very curious. Apps that want to switch on constant tracking must first have that rubber-stamped by the user in a message window. But nevertheless it makes sense to check in "Settings" and "Data privacy". All apps that uses tracking services are listed in "Tracking services". You need to be particularly attentive in case of apps, which "Always" want to track. You can simply adjust the setting to "Never". In "Data privacy", you can also see which apps have access to contacts, calendar, microphone and other information. You can even prohibit these rights to apps. In "Diagnostics & Use", a tick mark must be set at "Do not send", in "Advertising" the switch must be set to "NO ad tracking".

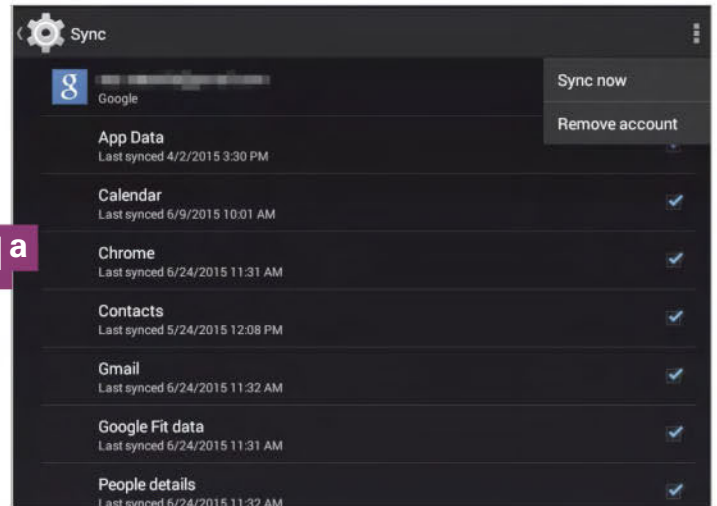
## 3 Sealing the Windows phone

Microsoft has abolished unique device IDs from Windows Phone 8, but there is an advertising ID which can be used by apps. You should, therefore, shut off the advertising ID in the "Settings". There is no central overview with deactivation function for individual apps in Windows Phone – you must decide that while installing the apps. In retrospect, turn off the location determination completely either in "Settings | System | Location" or deactivate it in the apps, which you must scour individually for that. 

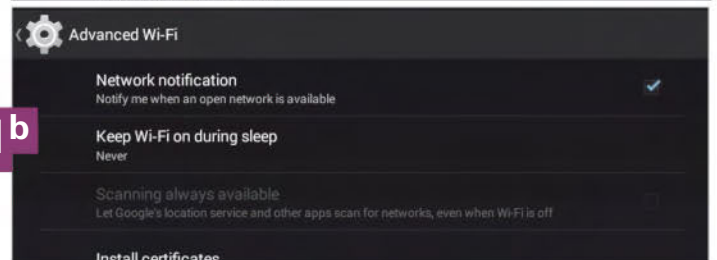


The location function of mobile operating systems – here the one from Android – follows you like a shadow wherever you go, but it is relatively easy to simply deactivate it

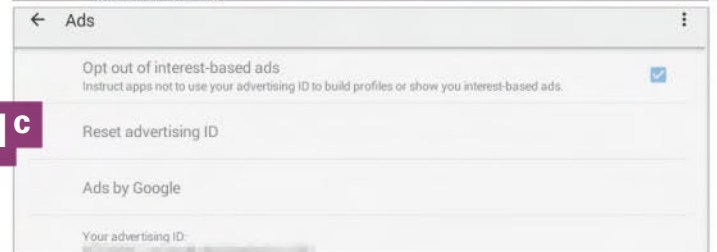
1a



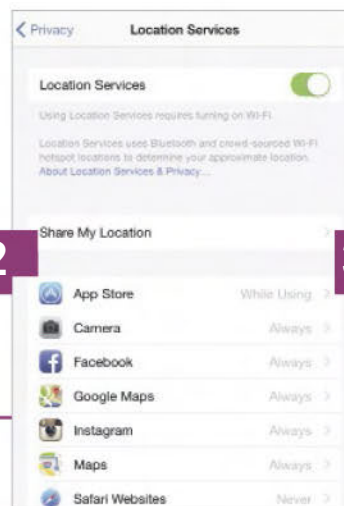
1b



1c



2



3





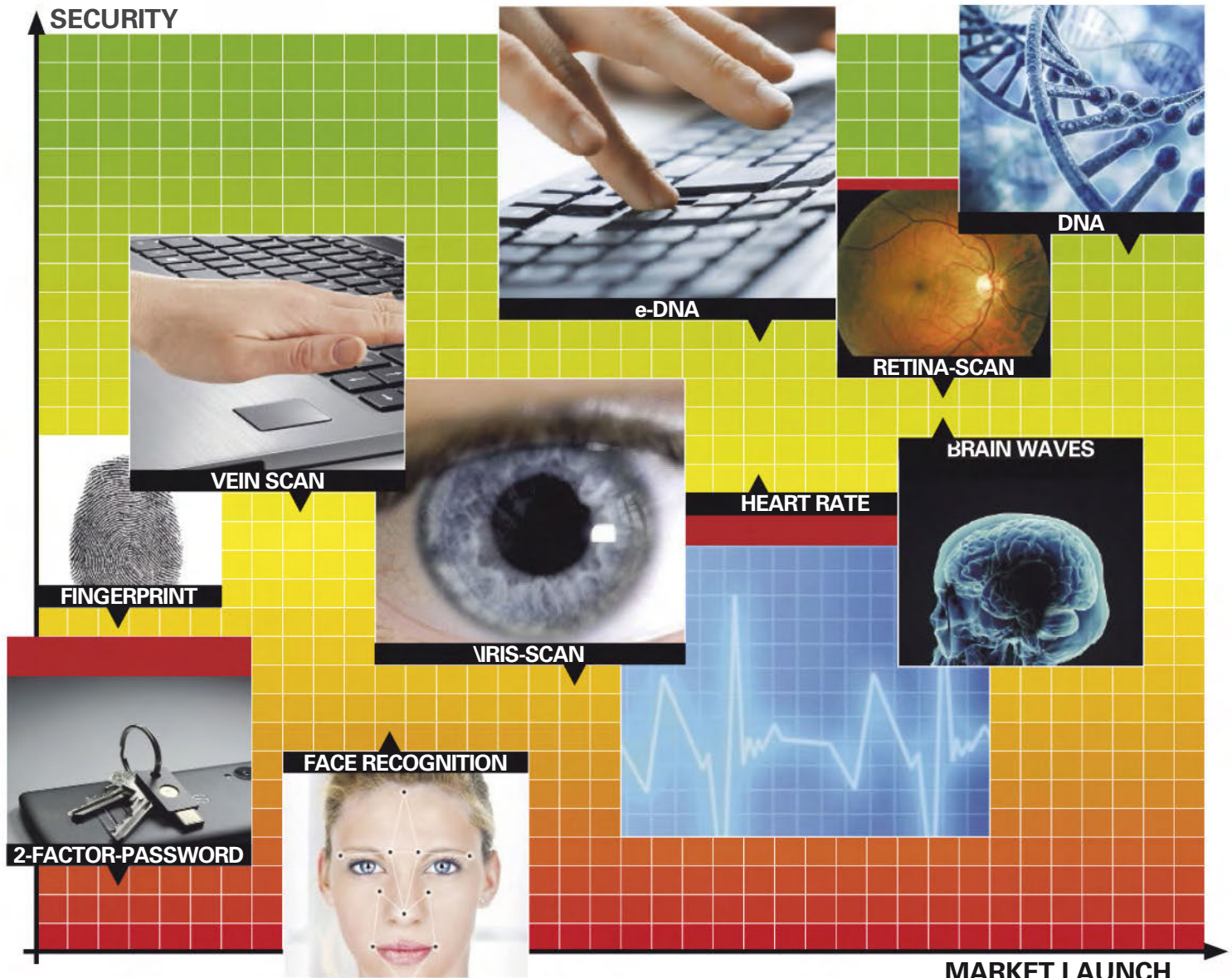


# Wikipedia

*Back in the early days, one would look up the Encyclopaedia Britannica for their information. Now however, the online encyclopaedia has demoted both to mere bookshelf showpieces. This month we display Wikipedia and its progress through figures*

By Melissa Montasser

Year, in which Wikipedia was founded	2001
Rank among the most frequently searched for websites in the world in February 2015	7
Number of languages in which entries were made	287
Article that was written in the most number of languages	"Russia" (271 languages)
Number of calls registered on Wikipedia every month	20 billion
Number of employees worldwide	251
Number of active authors in November 2011	80,000
Number of active authors in November 2014	77,000
Percentage of women authors	10 percent
Active users	Koavf (1,474,735 edited pages)
Most editing within one day	2,857 (article: "7 July bombings")
Most references in one sentence	172 (article: "Educology" in the edition dated 21st May, 2010)
Article that was most frequently called in one day	"Steve Jobs" (7.4 million calls on 6th October, 2011)
First article that was featured on the home page	"Wolfgang Amadeus Mozart" (22 February, 2004)
Millionth article	"Jordanhill Railway Station" (registered on 1st May, 2006)
The most frequently revised entry	"George W. Bush"
First category established	"World War II" (30th May, 2004)
Number of articles in the English Wikipedia	4.8 million
First featured article	The Canon of Scripture, Mathematical Group & New Zeland (21th Jan, 2001)
Longest article	List of law clerks of the Supreme Court of the United States " (784 KiloBytes)
Longest featured article	Barack Obama
City with a Wikipedia monument	Stubice



# Security Without Password

*You don't need to remember your password anymore for a secure log-in* By Fabian von Keudell

In the last year alone, over two billion data records were stolen by cyber criminals. This is far riskier than just a mere number of accounts, since many people often use the same password for various log-ins. For many years, experts have been advising to keep different passwords for every account, which should consist of special characters, upper and lower case and figures as well.

Understandably, it is tedious for most of the users (see graph at the top right). However, in order to keep the accounts reasonably safe, the security industry now advising users to take additional measures. There are no truly safe passwords out there. There are methods to attack most of them. Really safe password alternatives have yet to be developed until now.



Meanwhile, there are many services that offer one of the first steps for more security - the 2 step verification. Here, a one-time password besides the actual password is requested from the user, which is forwarded to him, for example, via SMS or smart-phone app. The method provides clearly enhanced safety, but it can be hacked regardless. Most frequently, cyber gangsters use key-loggers, which they infiltrate by phishing into the victim's PCs. The malware not only reads the normal password, but also the one-time password. Via man-in-the-middle-technique, the attacker can log in unnoticed or can even change the password for the account. It is much simpler when for instance, simple security questions for the online service are chosen, for example the mother's maiden name. Based on this information, many services allow access to the account and switch off the 2-factor-option. The safety measure has instead become the loophole for the hacker. Even if the security question is not simple to guess, the system could still be hacked. The attackers can infiltrate the user's smartphones, for example, using the malware BadUSB. When the mobile device is connected to the computer for charging, a virus, which has crept in the computer earlier, is automatically installed. Hence the attackers have both the password factors and they can log-in easily.

## 2-factor-passwords without using mobile

Users however can prevent this attack - by not using the mobile as a second element, instead by using a special Crypto-USB-Key with the U2F-Standard (Universal Second Factor). If a user wants to log-in to Google services, Google demands an additional special key, which can be generated by the stick. In this process, the transferred data is encrypted. But the stick is also not problem-free; if it is stolen, the gangster can install it without any problem, because the U2F-Sticks have no security question. Admittedly, the attacker must also know the normal user-password - however it can be relatively easy to change, depending on the service. The one who knows the second element, in this case the one who possesses the U2F-Stick, can often reset the password with a basic recovery procedure.

If one does not want to carry the stick around, one can use biometric recognition. These days, face recognition is very popular. In this, a picture of a user is recorded by the inbuilt camera of the device and individual characteristics are stored - for example the distance between the eyes. Though face recognition may sound simple and secure, it also has some loopholes for the cyber criminals. According to the hacker Starbug, in the initial generations of the devices, it suffices to hold a photo of the user in front of the camera; the computer gets unlocked or allows online log-in. The next software generation should eliminate these weak points by "Bio-detection".

Yet the hackers can overcome these hurdles very easily, by moving a pen up and down in front of the photo. Software solutions like Android face recognition can often be tricked with this method.

Another model offers more security, which also supports the U2F-standard is iris recognition. A camera scans the human iris in the eyes and uses it as verification. A few years ago only professional solutions were available with highly secured

## Passwords are never changed

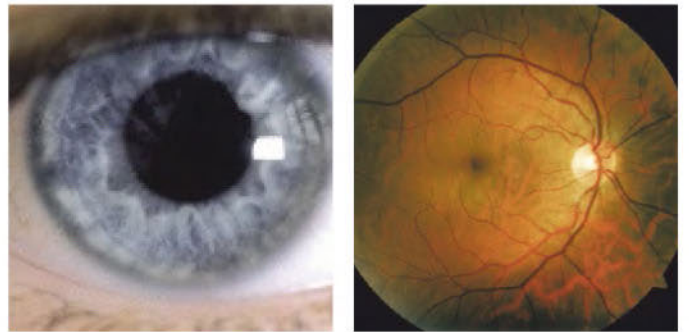
It is high time for alternative passwords. Almost half of the users never change their log-in data. Only about one tenth follow the suggestions and set a new password every 2 to 3 months.

### HOW OFTEN DO YOU CHANGE YOUR ONLINE PASSWORD?



## Iris and retina scan

While the iris (left) can be copied by simple means, for example, by high-resolution photos, the scan of the retina (right) is considered to be one of the safest password alternatives. It does require invasive infrared scan of the eyes.



## Vein recognition

Hand vein scanner scans the hand using infrared light. As the veins absorb the radiations intensely, the course of the bloodstreams can be read from the light reflection. The method is considered as one of the safest biometric techniques, available in the market now.



## Heart rate measurement

New biometric techniques include the pulse as ECG.

The user can be determined clearly through these measurements, because the pattern differs considerably even with the same pulse frequency. Devices are expected to enter the market by the end of this year.





equipment with integrated Iris-Scan, cheap consumer versions have now become available. Even the upcoming Windows 10 is expected to have integrated Hello function, a biometric iris recognition for log-ins. Iris recognitions are very safe - it gives false reports in only one in 1.5 million cases. The manufacturers of the iris scanner advertises the technology as uncrackable; but even this solution can be outsmarted with a very high resolution photo. The Chaos Computer Club, for example, has proved it. With the photo of the German chancellor Angela Merkel, shot from a distance of about five meters - it was possible for the hackers to enlarge and print the iris details in such a way that experts warned that the popular iris tools could be outsmarted.

Meanwhile, it is somewhat more difficult to crack one of the most popular biometric techniques - the fingerprint scan. Many mobile devices, like the iPhone, protect complete access to the system with fingerprints. Still, there are some methods of getting the print. Using some gear costing only a few ringgit, some graphite dust, transparent film and wood glue, the masterminds behind the Chaos Computer Club could outwit the finger scanner of the iPhone 5S in September 2013. The pattern for the fingerprint copy is found directly on the iPhone device, but the Chaos Computer Club also showed that the fingerprints can be reconstructed from photos as well. "Victim" of the demonstration here was the German defence minister Ursula von der Leyen. Of course, the procedure does require extensive post-processing of the photos; but it does show that the safety of the finger print scan is deceptive. The safest market-ready solution so far is vein detection. In this, a device with infrared light reads the bloodstreams of the hand. Here only the reading device can be attacked, in which the hacker taps into the data stream to the computer. Manipulation is very difficult, depending upon the model. The reading devices are very costly and are practical only for being used in the high-security wings of large companies and government agencies.

## Heart rate as a password

Other new procedures are also based on physical characteristics, which cannot be manipulated via photo only. Now a type of an electrocardiogram (ECG) can be recorded by special sensors; this allows systems to draw conclusions on physiological variations of the heart muscle, like the size and the location of the muscle as well as the exact time at which the heart pumps blood. These values differ from person to person. The technology has already perfected in such that the right person can still be identified when the carrier of such a biometric band has a changed pulse due to stress, physical strain or illness.

The first company to start heart recognition is Nymi. For measuring heart rate, the Canadian company uses an arm-band with two electrodes, which records slight changes from skin galvanic response, pressures and measures the heart with the help of these recordings. Every time the user wears it, he has to authorise himself using his ECG. When the band recognises the right user, a crypto-key saved beforehand in the bracelet is sent to a compatible device, like a smart phone or a computer, through a coded Bluetooth-connection.

So far, the company has been distributing a development kit

## Today's technologies

In order to make the access to the online services more secure today, Google, for example, is banking on two techniques. Firstly a 2-factor-protection, secondly a crypto-USB-key

Enter this verification code if prompted during account sign-in:

alice@gmail.com

246174



Smart phones get a one-time password via App or SMS, which must be entered by the user additionally for log-in.



Only when the U2F-key (Universal Second Factor) is inserted in the PC, the log-in is enabled with the user-password.

## Technologies of tomorrow

Researchers are constantly developing new techniques, which are expected to make conventional passwords redundant. It may take some time before they are ready for the market.



At present, Motorola is testing a password pill, which generates power using the user's gastric acid and issues a 16 bit key. The devices can then be locked using this.



The Nymi-band measures the position of the heart muscle and the pumping rate of the heart using ECG. Currently, the device is being developed and shall be in the market this year.



The researchers read the brain waves with the help of a special head-set. When the user thinks of a specific thing, the device detects the waves and sends an unlock code to the PC.



In the distant future, the human DNA is expected to be used as a password method. However, currently there are no cheap solutions for reading the DNA.


for the programmers. A consumer version is planned for this year. The advantage of inner biometrics - here are hardly any attack vectors in detecting the heart rate. The individual values, which Nymi reads for detection, are extremely difficult to falsify. So, the attacker must not only copy the pulse, but also the individual values of the heart muscle. According to the manufacturer Nymi, it is not absolutely impossible; but it can be realised only after investing a lot of efforts. Besides, stealing the band makes no sense, because data automatically locked when the lock or the casing is opened. The band is activated again only after the ECG is measured again.

## In the future, remember your password

There is a technology safer than the heart measurement, which is being researched the University of Berkeley. An EEG sensor (Electroencephalography) measures brain waves and can thus discover whether the user remembers the correct secret code. Over here, the password is not a combination of letters, but a mental task, like a certain hand movement or concentration on a certain tune. But, you will be able to select any password in the future. The EEG-samples means that variances will be different from person to person that a safe password can be formed from it. In the coming years, the EEG method should be available for the general public, because the output of several computers is necessary for evaluating the EEGs. The technique is considered as secure because there are very few ways of attacking here. Firstly, the attacker must place an EEG electrode unnoticed on his victim and should also make the victim think of his password.

One day, a retina scan of the eyes could also be a really safe password alternative. In this, the specifics of the eye are recorded by infrared light and course of the bloodstreams is recorded. These are just as individual as the human DNA. However, critics argue that the invasive technology already exists, but there are no long-term studies about the impact on the retina.

Experts opine that the future of access control belongs to DNA as every person can be identified almost 100 percent by his DNA. However, there is no inexpensive procedure as yet of reading the DNA. Skin flakes or hair samples could indeed help as sources; you still need well-equipped laboratories for the analysis. The question whether the DNA password cannot be unlocked simply with stolen hair and the user's DNA obtained from that, remains to be answered.

Researchers from Oxford University are also using DNA as a password alternative, but they require no laboratory for their assessment. The basic approach is as follows; every man has an individual method of doing things on the PC, like pressing the keys of the keyboard; researchers refer to it as e-DNA (electronically defined natural attributes). According to David Scheckel, president of Oxford BioChronometrics, a man is clearly identified by e-DNA. The project is still in the research stage. According to renowned security expert Chris Mitchell, such a password alternative is difficult to place. The reason behind this is constant monitoring. Because the e-DNA programme can collate a user's behaviour to the correct user by continuous analysis only. Advantages of the method: It does not require costly sensors and yet it is hard to crack. 

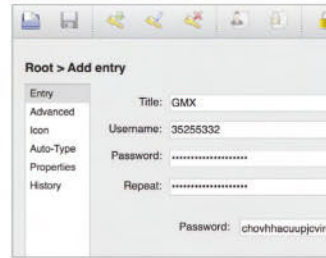
## You need only one password

As long as the biometric techniques of the companies are reliable and suitable for the general public, you should bet on this free password manager. You need to remember only one master password



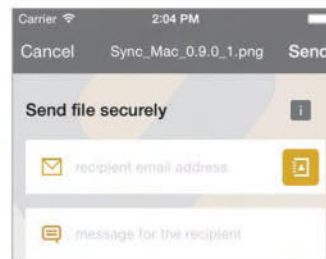
### Windows

The Password Safe Personal program manages up to 20 data records and even offers adequate security for a TAN-list. The password generator automatically ensures a good password. A backup function saves the data base.



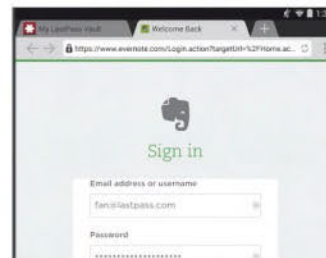
### MacOS

You should reach for KeePassX for the Apple desktop system. The source code is open as it refers to an Open-Source solution. A loophole for secret services is therefore excluded. Also the encoding is considered as hacker safe.



### iOS

With SecureSafe, you can save your mobile passwords in a secure online-safe in servers in Switzerland. US - secret services cannot access the data according to a ruling itself. Practical additional feature: coded data transfer.



### Android

LastPass can be used as a secure browser in addition to password manager; other android apps cannot snoop on this browser. It is imperative that you use it if you use online-banking on your mobile.

## Five steps for safe master password

- The data leaks in the past and their impacts have shown that the length of passwords should be twelve letters or more.
- In order to be safe from so called dictionary attacks, wherein attackers simply try out the contents of the dictionaries as a password, avoid names, places and known words. Check it using Google search if necessary; if the password gets no hits, you have chosen well.
- Do not use any signs as substitutes for alphabets; like "@" for "A". These variations are integrated in the Brute-Force- variations of the attackers.
- You can generate a safe password from two sentences. For example, "Who are you to say that M-XX-9999 is not Right? Is it Not?". Hence the password is "WharYtStHm-XX-999R?iIN?".
- Never use the same password for different services, and also change your password-safe-codeword every 2 to 3 months.



# know the future

## COVER STORY

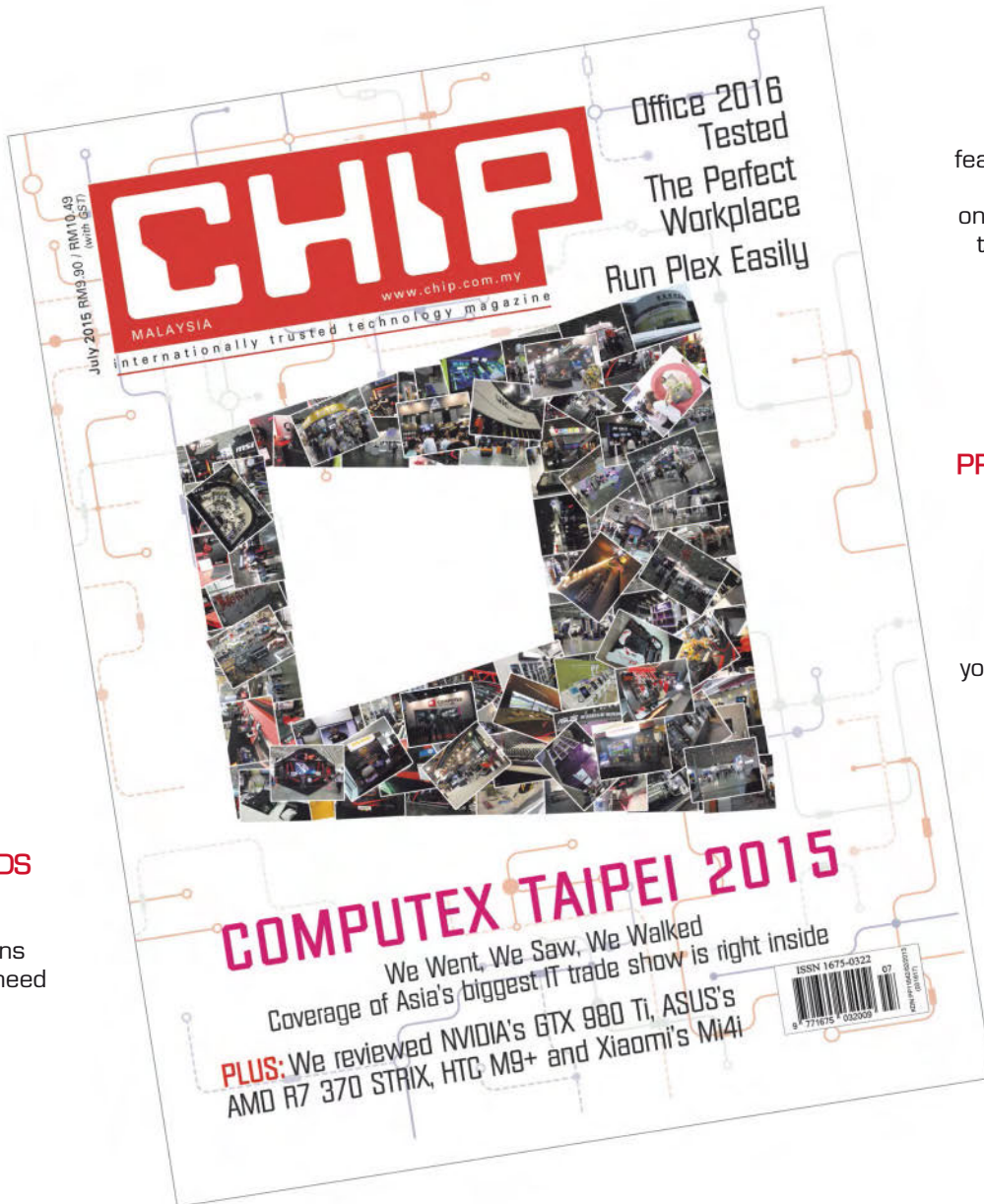
Our main feature of the month which gives an in-depth coverage of today's most exciting technological issues and trends

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# COMPUTEX Taipei 2015

*New technologies and products showcased at Asia's biggest technology trade show*

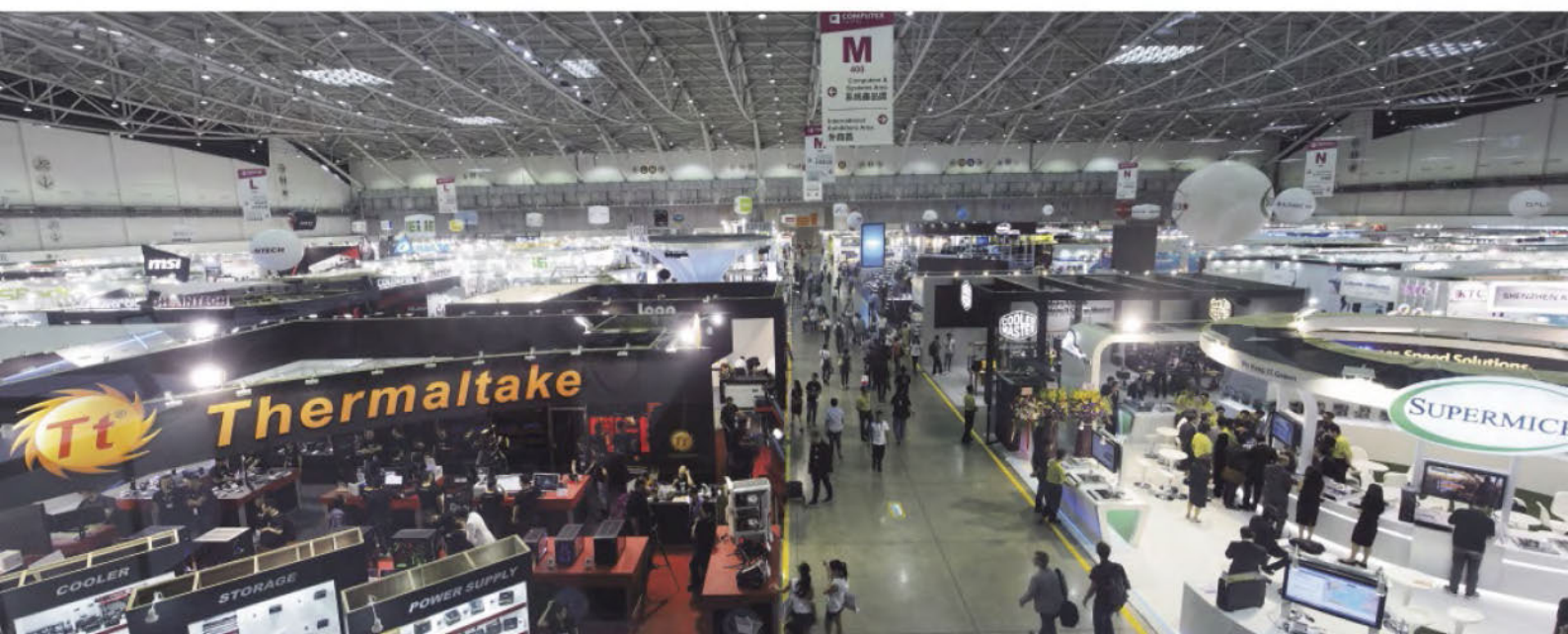
*By Sharil Abdul Rahman*

June is always a great time for technology fans. Why? COMPUTEX is in town (well, at least in Taipei), and it is where all the big names of technology converge to show what are their latest technology to both the world, and especially, interested buyers.

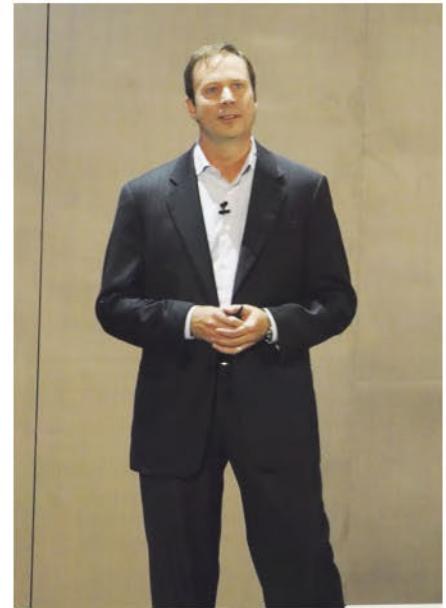
The overall feel of COMPUTEX this time around is of anticipation – as Intel is still not releasing their 6th generation Core processor to the market as yet. Thus, none of the manufacturers are showcasing the latest motherboards that uses the new 100 series chipset and the new socket 1151 designed for the processor, code named Skylake.

But it doesn't mean that there are no new innovations and technology that are being displayed on the showfloor. As you browse through the pages, you will see big names such as ASUS and MSI showcasing their latest products, which most of them are heading to our shores real soon. The biggest news however is that Cooler Master went through a brand revamp, which includes both the looks for the brands as well as a new product line-up for their signature line.

Do have a read through and have as much fun as us covering COMPUTEX Taipei 2015 for you, our readers.







Kirk Skaugen on stage delivering his keynote

# Intel

The company from Santa Clara was up and about showcasing their 5th generation Core processors on the trade show floor. With more companies talking about incorporating their Core M processors, Intel is well ahead in the mobile segment in giving customers great performance without incurring too much weight penalties.

At the customary keynote announcement, Kirk Skaugen, Senior Vice President and General Manager of the Client computing group was on stage showing what new features that customers will be getting with their new 5th generation Intel processor-equipped machines. RealSense, Intel's own technology for 3D solution was showcased as both a capturing platform and a rendering platform, with the RealSense camera being the star of Intel's presentation.

Intel also touched on their concept of Internet of Things (IoT), where any devices can be connected to the internet and be controlled through it. With collaboration with Wind River, Intel will be pushing the new IoT Gateway devices, where applications that are not necessarily internet capable to be connected with the web wirelessly, and have the data collected to be stored in the cloud for research or processing purposes.

With the 5th generation Intel Core Processor, Intel is showing the capabilities of their own Graphics Processing Unit (GPU) dubbed Iris Pro. While this is not something new from Intel, the latest generation of Iris Pro promises up to 40x performance increase over the 4th generation Intel Core processor with Iris Pro – or up to 100x time better performance if compared with the first Core processor that comes with a built-in GPU (codenamed Nehalem, released in 2008).

Finally, Intel is pushing their world without wires scenario, as the push their wireless technologies through the help of their partners. As Intel is part of the Alliance for Wireless Power, the company is backing the rezence wireless power format, where it is touted as the next generation of wireless power delivery technology. One feature that Intel is pushing with rezence is the capability of rezence to push up to 100 Watts of power wirelessly – allowing it to charge a laptop without the need of any wires on the desk. This feature may be the turning point of mobile productivity as users can just put their laptops or mobile devices, on a desk and charge away – sans wires. Intel also pushed three more wireless platforms for a true wireless mobile experience – WiDi for Wireless Display, WiGig for wireless desktop docking,



Johnny Shih, Chairman of ASUS with the new Transformerbook T100HA with USB Type-C



One of the many Intel displays at COMPUTEX

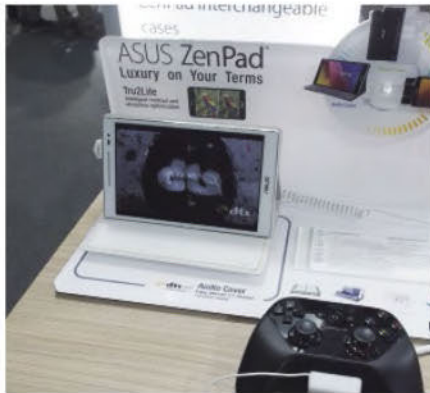
Wireless data through the Open Interconnect consortium, where users do not need to select their data needs – the mobile device will be smart enough to select it for the users.

# ASUS

As a big company with multiple product lines, ASUS was out in force in COMPUTEX Taipei 2015. Everything ranging from small smart watches all the way to server-side support products were on display at their booth.

## ASUS Zen Pad S 8.0

One of the new tablets announced by ASUS is the new Zen Pad S 8.0. It is the first eight-inch tablet that comes with a 2K IPS display, as well as 4GB of RAM. It has an Intel Atom quad-core processor, and a selection of accessories to expand its usability – including the Z Stylus, as well as a folio cover with built-in speakers!



## ASUS ZenPad 10

If on the go productivity is important to you, the ZenPad 10 may be a better choice for you. With the optional detachable keyboard paired together with the ZenPad 10, it becomes a good productivity device that you can store in your bag. It also comes with an Intel Atom quad-core processor, up to 2GB of RAM and 64GB of storage.

## ASUS T100HA

The model that Johnny Shih bought to the stage during the Intel keynote was one of



the big star in ASUS's booth. The T100HA borrows the design from the T100, but adds 4GBs of RAM, USB 3.1 Type-C port, and will also be the device that will launch with Windows 10 out of the box.

## ASUS Routers

Apart from their mobile devices, ASUS is also famous for their routers, which several models have garnered CHIP Editor's Choice previously. Among the hero model this time around is the RT-AC3200. It is a triple band router with six MIMO antennas for the best 802.11ac experience ever.

## STRIX Audio

ASUS is not only a big name in gaming devices, but also in gaming sound. Under their STRIX sub brand, ASUS will be coming with audio cards, which promises better sounds during gaming and multimedia playback.



## Upcoming Graphics Cards

A few new graphics card will be heading our way soon, courtesy of ASUS. One of it will be the STRIX branded NVIDIA GTX 980 Ti, which will feature the Direct CU III 0dB fan design. Naturally, it will be overclocked out from the box – but ASUS is not sharing

the stats with us as yet. There will be also a new Turbo series card coming from ASUS for those who prefer blower-styled cooling systems.

## ROG G20

If you are looking for a compact gaming machine that is designed for your desk rather than the living room, check out the ROG G20. While it is only a 12.5 litre case – compact for a desktop machine, it is filled to the brim with gaming technology goodness. Intel's Core 4th generation processor, NVIDIA graphic up to the GTX980, ample storage for all your games plus a few more features such as ASUS-exclusive Aegis application for system monitoring.

## ROG G-Sync Monitor

NVIDIA's G-Sync technology is awesome, but it is useless without a monitor that can support it. Thus why ASUS stepped into the furore and created their own G-Sync monitor. This 34 inch, 21:9 ratio monitor with a 4K pixel count of 3440 x 1440 will give you the most stunning and smoothest gaming experience ever. Plus, it is curved!



Gaming on the ROG G-Sync monitor will be awesome - there is even an ROG symbol lighting up the table when it is running



# AMD



Dr Lisa Su, President of AMD on stage

At COMPUTEX, AMD was all out, announcing its 6th Generation A-Series Processor, the world's first high-performance Accelerated Processing Unit (APU) in a System-on-Chip (SoC) design. Previously known by its codename "Carrizo", the new APU will be featuring in notebooks first, which will then be followed by All-in-One machines.

New technologies introduced includes



Some of the new Carrizo-equipped machines

the world's first High Efficiency Video Coding (HEVC) hardware decode support for notebooks, up to 12 Compute Cores – 4 CPU + 8 GPU on a chip as well up to 2x in both battery life and gaming performance than its predecessor. It will also feature native DirectX 12 support with Windows 10.

The new APU will also feature AMD Gesture Control - available on mainstream notebooks, allowing users to navigate and control their notebook with a simple wave of the hand without added costs

During the showcase, 6th-generation APU-equipped notebooks and all-in-ones were on display to show the performance of the new chip in real-world scenarios.



ASUS is also presenting Carrizo desktops



Some early numbers for the APU performance displayed

Among the brands spotted includes HP, MSI and Dell – for both notebooks and All-in-One solution.

# NVIDIA



The graphics card company was also in COMPUTEX, showing off their latest GPU, the GTX980 Ti in a selection of machines and stations that shows the abilities of the new GPU. This includes 4K gaming, VR experience and also G-Sync technology. DirectX 12 features such as better lighting effects, volumetric rendering and low-level API for lower CPU overhead was also shown at the event.

Also on display are notebooks from several manufacturers with the new G-Sync technology built in, which gives better gaming performance by synchronising framerates to achieve smoother frames per

second (FPS) performance in games.

In a briefing given to CHIP, NVIDIA shared several items of interest about their next generation graphics card. For one, they are developing an SDK for Virtual Reality (VR) called Gameworks VR. With a complete set of APIs and libraries accessible by headset and game developers, 3DVR gaming will be a different beast soon.

During the showcase, NVIDIA also showed their latest Android TV platform, Shield TV. Users can play games made for the Android platform, or stream games from their gaming PC to the living room TV screen with Shield TV.



A desktop equipped with the GTX 980 Ti, ready for 4K Gaming



Project: CARS being played on 4K at NVIDIA's showcase



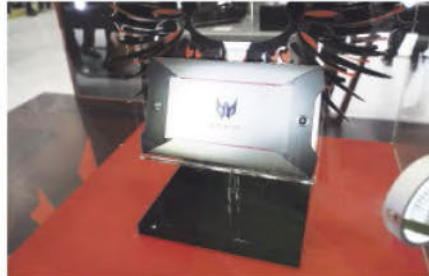
The Shield Android gaming console on display

# Acer

A native of Taiwan, Acer was also big at COMPUTEX this year, with their booth chock full of new products and technology. The highlight is the new gaming line of products – which includes the Predator gaming tablet, Predator desktop computer and the G-Sync equipped Predator monitor, which clocks in at 35 inches. It also features a 21:9 ratio screen, fast refresh rate of 144Hz, and built-in speakers for an all-in-on experience for gaming.

Acer also showed off several new items, which includes the new Liquid Leap smartbands in guises of Active and Curve, Liquid X2 smartphone, Aspire R 11 – as well as the award winning Revo One

desktop – both in standard colours, as well as a limited edition Hello Kitty model. The Liquid Leap Active is designed for the more socially-active youngsters, while the second model – Liquid Leap Fit – will be for the sportier crowd as it comes with heart rate sensor and stress sensor.



The upcoming Predator Android Gaming tablet behind a case



One of the two G-Sync monitors Acer is bringing to market



Liquid Leap Fit on a delegate's wrists



The Liquid X2, a smartphone with selfie tendencies

# Silverstone



This console-sized system has a full GPU running in it

A name that is well known in the PC DIY scene, Silverstone have bought their latest and greatest to COMPUTEX Taipei 2015. Their biggest product showcase is the Raven Z RVZ02 case. It is a Mini-ITX case, with similar dimensions if compared to a gaming console. An upgrade to the original RVZ01, the RVZ01 now features an acrylic side panel for better looks and air flow as well. It can accommodate two 2.5" drives, a

long graphics card and is powered by a SFX-sized PSU. Talking about the graphics card, Silverstone managed to keep the case relatively thin by having the GPU sit flat, and is connected to the motherboard by a riser card.

Speaking of SFX PSUs, Silverstone also announced the largest capacity SFX PSU, the SST-SX700. It can supply 700 watts of max power, is rated 80 Plus Platinum, and it is even a modular PSU, so cable management for small cases that it is designed for will be a simple task to handle.



Silverstone's lineup of PSU for 2015



The Raven Z fully kitted. Note the acrylic side window



One of the first few companies with 80 Plus Titanium PSUs



# ECS

This year, ECS will be focusing mainly on their Liva brand of Mini PC. While the motherboard market is still big, ECS feels that Mini PCs will be the next market to tap into. The original Liva PC has taken the world by storm, and it is natural that the next iteration of the company's Mini PC needs to happen.

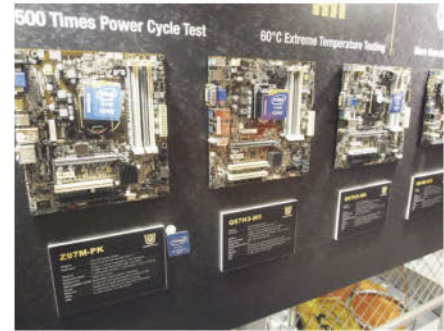
The next model coming from Liva will be the X<sup>2</sup>. It will be running Intel's Braswell System on a Chip (SoC), which is built using the 14nm process. It will come with

up to 4GB of RAM, up to 64GB of eMMC storage, a complete suite of networking connectivity (WiFi, Bluetooth, Gigabit LAN), both HDMI and D-Sub ports, an M.2 SATA slot for SSD expansion, and three USB 3.0 ports. All of these in a box no bigger than a can of soda.

For something a bit beefier, the Core model will be equipped with Intel's Core-M processor, 4GBs of RAM, a M.2 SATA storage option, two HDMI outputs plus a microSD card reader – in a body similarly sized like the X<sup>2</sup>.

At the same time, ECS will still be producing motherboards – especially for compatibility with the upcoming Skylake

processor from Intel. The current series 90 boards from ECS meanwhile can accept the 5th generation Broadwell processor that is coming to market soon.



ECS's motherboard lineup for 2015



The Braswell-equipped X<sup>2</sup>



The Core features Intel's Core-M processor

# Silicon Power

The brand is not a big name brand in Malaysia, but Silicon Power is slowly building their brand name here. However, they have already been in the market since 2003. A few new products from Silicon Power was introduced in COMPUTEX, with mobile storage being the main ticket item.

At their annual exhibition, Silicon Power displayed a few new items, with a focus on USB Type-C products. The

Mobile C80 USB Type-C Flash Drive is a reversible USB drive that features both USB 3.0 Type-A and Type-C, with capacities up to 64GB.

For Apple devices, capacity of the on-board storage in the device will be paramount. If they skimped on getting the higher capacity devices, there are not many options to expand the memory space. The SP xDrive Z30 Lightning Dual USB flash drive is one option for Apple users. It has both a standard USB 3.0 connector on one end, and a Lightning

on the other end. Using a downloadable app, users can easily store new content and files from the Apple device into the Z30, and transfer it to the PC or Mac.

Apart from these items, Silicon Power also produces external hard drives – both for PC and Mac. Their Armor series of external drives is designed to be ultra-rugged being both shock and waterproof. For Macs, the Thunder T11 external SSD solution is currently the lightest and smallest external SSD with Thunderbolt solution in the market.



Fancy a USB 3.0 drive with USB Type-C?



Silicon Power also creates SO-DIMM and MSATA modules



A Thunderbolt-powered external SSD for Macs

# Kingston



Some of the many USB drives on display



Kingston's first USB 3.1 thumbdrive

For this round of COMPUTEX, Kingston did not have a booth on the tradeshow floor. They instead have an experiential zone for both the public and media, where a Kingston popup store opened and the public can check out Kingston's latest product offerings.

Among the products displayed was the HyperX Cloud II Special Edition headphones, which comes in pink colour. Also shown was an array of new USB thumbdrives, SSDs and memory card solution from Kingston – among which is the 1TB Predator thumbdrive, and the Data Traveller microDUO 3C – the company's first USB3.1 Type-C



Kingston also creates headphone under their Cloud series

product for the mass market. Also on display was Kingston's first USB 3.1 Drive, the Data Traveler Micro 3.1. It will be coming to the market soon, with capacities ranging from 16GB all the way to 128GBs.

Kingston also displayed their memory solutions in real world setting with test PCs arrayed around the room.



On display were system equipped with Kingston memory

# Thermaltake



As per usual, Thermaltake was full to the brim with gaming-centric products – ranging from PC cases, gaming mouse, PC fan, and all the way to music devices. Several new models of PC cases were displayed at Thermaltake's booth.

The main attraction of the booth was certainly the modded cases set up at the front of Thermaltake's land in COMPUTEX. The biggest pull (literally) was the modded case that involved two Core X9 cases. The net result is that the case is about one-metre-tall, and was running two systems at the same time.

With the new WP200, Thermaltake

wants its customers to explore the limits for modding. The WP200 is big enough to fit in two systems simultaneously side by side. There is also enough space in the case for two watercooling systems to exist and run, thanks to the dedicated cavern for the associated items for watercooling – radiator, pipes and whatnot – at the bottom of the case. There is also the W100, where it shares the same concept as the WP200,



The WP200 on display. Note the two doors

but designed to be modular and only for a single system.

For customisation, Thermaltake offers a variety of different fans with LED lights and as a new product Thermaltake is introducing an RGB version of the Riing series with 256 colours selection. Also by Thermaltake is the Goovy 7 under the Luxa brand. It is a speaker that interacts with your smartphone without any wired or wireless connection to it.



This is two Core X9 cases stacked on top of each other!



# MSI Games On

Going big is a strong point for MSI, and true to form, their Gaming Conference event was full of new surprises and information that will be beneficial to gamers all over



The new X99 Godlike Gaming with the world's first RGB LED on the motherboard

New products ranging from motherboards, graphics card and even a few products you did not know MSI is producing this time around is showcased during COMPUTEX Taipei 2015.

During the gaming conference, several new products were showcased on stage, as well as involvement from partners that has contributed in the product development of MSI products throughout the years.

MSI also announced that they have shipped over 100 Million MSI-branded NVIDIA graphics cards throughout the

Nahimic Sound Technology, while Rivet Networks showcased their game changing network technology - Killer™ Wireless-AC 1535, the world's first network adapter to offer ExtremeRange Technology.

Intel and MSI also announced that with the latest BIOS update, all MSI Z97 & H97 motherboards are completely compatible with the new 5th Gen Intel Core processors and able to unleash the system's full performance. Committed to ensuring compatibility and performance, the MSI R&D team makes sure that their



MSI also introduced their new GTX 980 Ti card on stage

years. A special announcement is coming from MSI to celebrate on this fact, so stay tuned.

Representatives from MSI's major partners Intel, A-Volute Audio Company (Nahimic Taiwan) and Rivet Networks was also on stage to introduce their latest and greatest technologies in the conference.

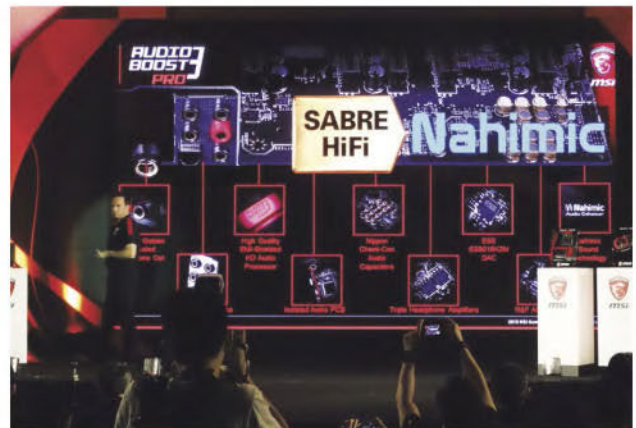
motherboard will have no problem supporting the latest generation of Intel Core processors so that users will enjoy fully, the latest technology and all the advantages of the 5th



Intel unveils the method implemented for Intel's all-new 5th Generation Core processors to outperform its previous versions. A-Volute briefs the

Generation Intel Core processors can offer.

Some of the new products introduced on stage includes the new GTX980 Ti GAMING 6G graphics card, featured with 6GB of VRAM and powered by the renowned Twin Frozr V cooler, which



features a premium LED illuminated MSI GAMING Dragon that can be controlled by a new feature on the exclusive MSI Gaming App. Also introduced alongside the GTX980 Ti are MSI's own Gaming SLI Bridges, which comes in three sizes, and like the GTX980 Ti, feature a controllable LED for maximum display capability.







MSI is one of the first to be ready for the upcoming Skylake chip from Intel



Some of the motherboards on display



A new product that will be coming soon to shelves is a GTX980 Ti Watercooled model, which is powered by Corsair. It will be a hybrid solution, which combines a blower fan and a water cooling block. It will also be an overclocked focused model.

With their new motherboards, MSI will have a complete USB3.1 lineup, that includes products that feature both USB3.1 type-A and type-C. USB3.1 promises up to twice transfer speed when compared with USB3.0. The motherboards are also both Windows 10 and Intel Core processor 5th generation (formerly codenamed as Broadwell) ready.

A new build feature that is going to be the inclusion of what MSI call as armour on their components on the motherboard – especially around the PCIe slots as this has a triple feature where it protects the PC during transport, strengthens solders on the board as well as superb Electro Magnetic Interference (EMI) protection. The armour also gives more strength for the motherboard to support longer and heavier graphics card, especially when the card is set horizontally.

Lastly, MSI will be producing their own U.2 interface cards, to connect the new Intel 750 SSDs to the system, through the m.2 SATA slot.

The MSI lineup for 2015 looks very impressive, and we look forward to see it in our labs in the upcoming months.

MSI will also be part of the 2015 Masters Gaming Arena (MGA), with regional qualifiers kicking off for the United States, Europe and Asia. In June, the first qualifier starts in Asia and the rest of the regions in the following weeks. Gamers will be up for a US\$200,000 prize pool plus free tickets to the United States in the Grand Finals.



MSI will be producing their own Gaming SLI Bridges for system builders



A few GPUs were on display at MSI's Gaming conference



MSI big wigs on stage for a photo op.



# New Gaming from MSI

Along their gaming conference announcement, MSI has a big presence on the tradeshow floor, and features a wide selection of products that will fit the need of many, with each segments will have a specific product to fulfil their request

## MSI X99 Godlike Gaming

The latest motherboard that will be coming to our shores from MSI is the X99 Godlike Gaming motherboard. The new flagship from MSI brings a few new features for the gamers into a single board – including the Nahimic audio experience, Killer



The new MSI X99 Godlike Gaming

Doubleshot X Pro, Turbo M.2, SATA Express, USB 3.1, and even the ability to change the world's first RGB LEDs on the motherboard, thanks to the companion app called the Mystic Light app for your Android device, as well as the MSI Gaming application on your desktop.

## X99A Gaming 9 ACK

MSI must be doing something really right, with their GAMING 9 ACK motherboard as it won the Best Choice Golden Award in the Gaming & Entertainment category – awarded by COMPUTEX Taipei 2015. It has a premium look, but still tempered for gamers as it has a great set of features that is designed around the gaming needs in mind. SATA Express + USB 3.1 + SATA 6Gb/s, world's first onboard hardware streaming solution (Streaming Engine), Sound Blaster Cinema 2 while supporting the new Intel Core™ i7 processors Extreme Edition in LGA 2011-3 socket.

## GTX980 Ti 6G

The current king of graphics processor (until the other GPU company speaks up) – the GTX980 Ti is the best option for you to



6GB of RAM in this GTX 980 Ti from MSI

game in 4K resolution, without paying through your nose for a Titan X. Even on the GTX980 Ti however, you will be 4K gaming without a hitch, thanks to the 6GB of on-board VRAM. You will also be gaming cooler, thanks to the Twin Frozr V cooling solution, which will give you up to 17% cooler temperature – if compared with reference designs. It also helps that MSI has the Torx fan in the graphics card, which generated 19% more airflow for better cooling, without any net increase in sound generation. Pair it with the latest version of the MSI Gaming App, expanded with MSI Scenamax technology (under the EyeRest tab) to provide you easy access to image quality improving technology in the easy comfort of the MSI Gaming App.

## MSI GAMING SLi Bridge

Want to make your gaming rig look a bit more awesome? Check out the MSI GAMING SLi Bridge. It comes in three versions – Dual SLi, Triple SLi and Quad SLi – and it connects your GeForce cards



Three versions of the SLi bridge will be made available

like never before. Thanks to its metal construction, it is much sturdier than the simple SLi bridges that you get out of the box. Plus, it comes with LED built in, that you can control through the MSI Gaming App on your desktop.

## M.2 TO Mini-SAS (U.2)

If you want to get the most of your spanking new Intel 750 SSD, you will need a Mini-SAS connector to fully take



MSI's solution to connect the new Intel 750 SSD with NVMe advantage of the direct CPU connectivity for speedy data transfer. As most desktop motherboards do not have a mini-SAS connector, a new add-in card has been made, using the U.2 platform. This add-on card connects to the motherboard's M.2 slot, and will give up to 1.5GB/s transfer speeds – thanks to the new Non-Volatile Memory Express (NVME) memory architecture.

### B85M ECO

While gaming is still an important facet of MSI's business line-up, there are also markets where low power consumption is king, and energy efficient processes rules. The B85M ECO is perfect for that application as its ECO Tech design is an industry leading hardware/software solution, designed to optimise power consumption. It supports Intel's 4th Generation Core/Pentium/Celeron processor, comes with on-board USB3.0 and SATA 6GB/s, and it is TÜV certified and approved for long-term stability & energy efficiency – making it perfect for energy efficient applications.



Power sipping motherboard from MSI

### X99A SLI Plus GTX 970 4G

Professional services have different needs to compare with gamers, but they still need processing power for their applications and programs – sometimes even more than



A desktop setup made for professionals

what gaming machines can deliver. MSI has a range of solutions to fulfil this need. The X99A Plus is designed for professionals with its low-key design, yet still retain high performance components such as USB3.1, OC Genie and Turbo M.2 SATA for faster data transfer performance.

### Nahimic Audio Experience

MSI is partnering with Nahimic to give their products a boost in the audio department. Powered by military technology, Nahimic renders audio played through MSI products – whether it is music, video or games – and upscale it to a higher level. The same sound upscaling technology is also present for audio coming from the microphone – so clear sound can be transmitted during team play conversations.

### MSI Case Mods

We were lucky to see some of the more case mods to appear online in the flesh at

MSI's booth. The biggest (figuratively and literally) case that was made to look like the Power Loader from the movie Aliens.



A venomous case, powered by MSI



Who says green is not cool?



A wall of upcoming motherboards and graphics card from MSI



# GIGABYTE



From the top of Taipei 101, GIGABYTE showcased a few new products for this COMPUTEX season. While there are not as many products on display as previous years, the line-up is still pretty spectacular.

Gigabyte has always been known with their Ultra Durable, G1 Gaming and Super Overclock brands for their motherboards. This year, the brand will see a refresh, in terms of looks. New logos portraying each of the three branding in the product line-up.

Like many of the manufacturers in Taiwan, GIGABYTE is waiting intently for Intel to release the 6th generation processor, codenamed Skylake. While they can't do any benchmarks on site, Skylake motherboards were on display, alongside the current generation boards. The Z170 chipset will support DDR4 memory, USB 3.1 as well as Intel Rapid Storage Technology built in, thus support for the new NVMe SSDs baked in.

GIGABYTE will also add on Killer's Double Shot Pro X3 network connectivity for their higher end Skylake Z170 motherboards, for better networking throughput.

At the same time, GIGABYTE showcased their own take of a video workstation, powered by their X99-UD4P motherboard as well as NVIDIA Quadro graphic processors. When fully specced, the system can both playback and edit in real time 4K video sources. GIGABYTE is in the midst of releasing an approved workstation list for end users who wants to build their workstation DIY style.



On the other side of the room, GIGABYTE was showcasing their line-up of notebooks, with their AUROS brand taking the spotlight. While relatively new, the AUROS brand has fast climbed the stature to become a favourite amongst gamers.

The AUROS models are all slim, yet powerful machines. The new X5 is touted as the world's most powerful 15-inch gaming laptop, as it comes with two GTX 965M set in SLi. These two cards managed to outperform a single GTX980M by about 15%. What is more amazing is that the AUROS X5 is only 22.9 mm thick, making it a very condensed yet powerful compact gaming machine on the market right now. It only weighs less than 2.5KG, and even features NVIDIA's new notebook G-Sync technology.

Two other models were also on display at GIGABYTE's booth – the X7 Pro-SYNC and the X3 Plus. The former is a 17-inch machine, and comes with dual GTX970M for

unparalleled performance. Like the X5, it also features the new G-Sync technology for notebooks from NVIDIA, promising smooth framerate rendering on screen. The X3 plus meanwhile is the company's smallest and lightest model – but don't think it is not powerful. It comes with a GTX 970M, so you can be assured that gaming on the go will be a great one.



Both the current generation and upcoming generation motherboards on display



Some of the AUROS notebooks on display

# ADATA



With focus on memory solutions for both desktops and mobile, ADATA was out in full at COMPUTEX Taipei 2015 with new products for each of the target segments. ADATA has the SX930 2.5" SSD on showcase, created for high performance gaming situations. With a JMicron chip in it, it can maintain up to 560MB/s read and 465MB/s write speeds. Plus, with capacities up to 480GB, there is more than enough storage for all the important applications as well as games.

They also have M.2 SATA solutions for machines that can accept the new storage format. Using controller from Marvell, the M.2 SATA storage can go up to 650MB/s for reading data, and is available with

capacity up to 256GBs

For those who are looking to adopt USB3.1 into their workflow, ADATA has several USB3.1 product ready to go to market. The SE730 is an external SSD with USB Type-C connector which promises data transfer speeds of up to 540MB/s – double the speed of a similar USB3.0 SSD product.

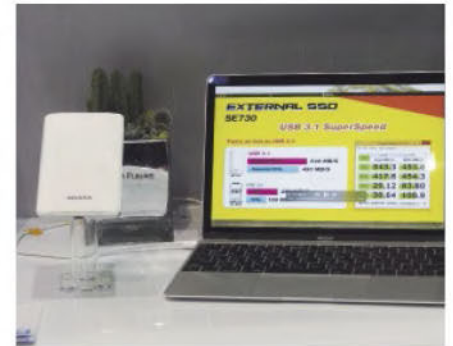
An interesting product coming out from ADATA is the ADATA Touch, an Interactive WiFi Display Adaptor. By just plugging it into any screen or projector and pairing it with your mobile device, the projected screen is now the new screen for the



One of the many SSD ADATA have on display at their booth



The XPG line of RAM running in real time



USB 3.1 certainly delivers their promise

# Synology



A company that is well known for its Network Attached Storage (NAS) has bought something new to COMPUTEX this year – a router! The Synology Router, model number RT1900ac, came to fruition after Synology received many comments from their customer base that they would like to have a router that is robust, controlled by Synology's brand of software. With an ultra-fast connectivity option, thanks to 802.11ac – it can support a combined dual-band data transfer rate of up to 1900Mb/s, as well as perform beamforming ability, which is targeted data transfer through the air. It has 3 x 3 MIMO Streams, thanks to the triple antenna setup, USB 3.0 ports to connect external storage, thus turning the RT1900ac into a NAS, plus

Synology's great web-based management software is included as the dashboard for the new router, now called Synology Router Manager (SRM)

On the NAS side, Synology released several new models, including the DS215+ and the DS715 – both designed for the SMB segments. With features such as built-in hardware encryption, Dual LAN ports with Link aggregation and failover support, USB3.0 support with up to 2Gb for better multitasking performance and for the DS715 – storage boost capability with the Synology DX513 storage module, the two models will be perfect for any SMBs who are looking into scaling their data storage repositories.



The RT1900ac router from Synology



This NAS...



...and this NAS are perfect for SMBs





# ASRock

More popularly known for their affordable yet high performance motherboard range,



ASRock's own Mini PC line on display

ASRock is stepping into new territory in 2015 as they embark into the gaming and networking segment. While not veering off too much from their core business, ASRock will be expanding their repertoire of products with their own take on a router designed for gaming, as well as Mini PCs for the consumers.

Called the G10 Gaming Router, ASRock says that this product will be arriving in stores by the end of the year, with specific markets getting it first than others. With an impressive list of specifications – dual-core 1.4GHz cpu, 802.11ac wireless networking standard, five Gigabit Ethernet ports, eight internal high-power omni-directional



This full-featured gaming router is a beast

antennas, and two USB3.0 ports – the G10 is certainly something to look forward to. Plus, it also comes with a portable HDMI dongle that can turn itself into a Miracast dongle for your mobile devices, as well as function as a portable network wireless router when the need arises.

New motherboards coming our way include ones that supports Intel's 5th generation processors as well as the upcoming Series 100, which will support Intel's 6th generation Core processor codenamed Skylake.



Some of ASRock's line of motherboards on display

# GALAX

Previously known as the brand Galaxy, GALAX bought their A-game to COMPUTEX when with an open display of overclocking prowess, thanks to a group of overclockers trying to break records at GALAX's booth.

Their main focus however are always their products, which includes a wide range of graphics card, as well as SSD modules. The crowning jewel of GALAX this time around is the new GTX 980 Ti HOF (stands for Hall of Fame) graphics card, which is joined by its sibling, the GTX 980 Ti HOF EX WC. The former is an

air-cooled GTX 980 Ti GPU that is not following the reference design – instead featuring three fans to cool the system down. It shares the same specifications as a standard GTX 980 Ti, but as of press date, we are not privy if they will overclock the base speed out of the box. The other model is the more interesting of the two, as it is a fully water-cooled GTX 980 Ti GPU. While it is not final as yet, we did notice that it has three 8-pin power sockets, so you can guess that it will be overclocked higher than standard.

Apart from the GPUs, GALAX also now produces SSD modules designed with gamers in mind. With sequential write speeds of up to 550MB/s, the Gamer series of SSD from GALAX may be a good option for system builders to use for their game machines – especially as it goes up to 960GB in capacity. One surprise coming from GALAX is their own take on a virtual reality headset. Called Vision, it looks like an early version of Oculus Rift and it has a 1080p panel inside for all your VR needs. As this is a developer edition – it still has some rough edges here and there, but with an estimated price of only USD200

(~RM 750), this could be the ticket to cheap VR for the masses.



GALAX's surprise of COMPUTEX is their own 3D VR goggles



The two models of GTX 980 Ti coming from GALAX

# MSI Notebook



The new GT72 will come with Tobii's eye tracking technology, for hands-free gaming

MSI also a big player in the notebook segment, especially gaming notebooks. Hence why they also have a big notebook contingent during COMPUTEX.

The star for this COMPUTEX for MSI Notebook is definitely the GT72 Dominator Pro Tobii EyeX. While it has a long name, it also has a great feature. Using the built-in eye tracking hardware by Tobii EyeX, the GT72 can track the user's eyes as if it is a controller. Thanks to the tracker, which

uses infra-red cameras to track your eyes, you can literally game hands free. Currently this model is still under development, but MSI did say that it will be out by the end of the year.

MSI also showcased their notebooks that feature NVIDIA's G-Sync technology. The GT72 2QE Dominator Pro G-SYNC is MSI's answer to a flagship device with the latest and greatest technology inside. Apart from the G-Sync feature, it can also output up to four displays, thanks to Matrix Display support, including the notebook's own display.

Also on deck is the new Gaming Dock product from MSI – the GS30 2M Shadow + GamingDock Mini. A new model to complement the earlier GamingDock product, the new device now features a smaller dock for the GS30 notebook to, well, dock to. It still gives the GS30 a boost in graphics capability as users can install a desktop

graphics card into the GamingDock Mini (up to a full-sized x16 GPU!) for extra oomph while gaming at home. It also features the Killer Gaming Networking when docked, and yet when undocked, the GS30 only weighs 1.2Kg. The dock is now a wedge shape to compare with the original GamingDock.

On the other side of the coin, MSI also has workstation-level notebooks, where it

is designed more for Computer Aided Design and 3D modelling rather than gaming. With certification awarded by Autodesk, Adobe and PTC, these workstations is powerful enough for heavy duty work.

The WS60 20J 4K Edition feature 4th generation Intel Core i7 processors, NVIDIA Quadro K2100M GPUs and a 15.6 inch Ultra HD screen – basically 4K for your work station. It is powerful enough to be used as a render machine for 3D work – making it perfect for animation studios and game studios who need processing power for intensive graphic work.

WT72 2OL meanwhile is one of the world's first mobile workstation that features built-in USB3.1 connectivity. It has a larger 17.3 inch Full HD panel, NVIDIA Quadro K4100M and supports up to 1TB of M.2 SATA storage, thanks to a RAID 3 with 4 x M.2 SATA slots.

Also announced at COMPUTEX is MSI's latest line of mainstream notebook – the Prestige series. This line does not have any gaming focus, rather it is targeted for professionals. It features TrueColor panels, which reproduces images with true-to-life quality, Nahimic Sound Technology for better entertainment enjoyment, all in a design that will not look out of place in a boardroom meeting.

Lastly, MSI is introducing their own home surveillance camera called the Panocam and Panocam Pro. With a 360-degree fisheye lens, it can see just about every corner in the room that it is installed in. It is controlled via the web through WiFi connection. With an easy setup, it also can be programmed to alert customers if something is amiss – thanks to the built-in motion detection system.



Selected model coming from MSI will have NVIDIA's new G-Sync technology



MSI displayed their notebook's capability for G-Sync at their booth in COMPUTEX



Not forgetting the professionals, MSI introduces the Prestige series





The new MasterCase, in 3D printed form

# Maker Spirit is Strong with Cooler Master

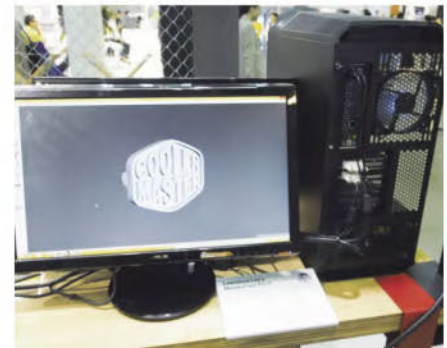
Cooler Master brings back the 'maker' DNA into its folds

Celebrating the spirit of making, Cooler Master launched a new look for the brand, and is adopting a new slogan, "Make It Yours". The slogan kicks off a new drive to harness "the Maker Spirit" in Cooler Master's products and community.

"The maker spirit is that curiosity to know how and why things work, and the

satisfaction that stems from taking ownership of something you make," said Roger Lin, Cooler Master's Chief Executive Officer. "People want unique products to express themselves, that's human nature."

Starting from the humble beginnings all the way 15 years ago pioneered by Roger, Cooler Master invited a team of



renowned PC industry veterans, including Richard Surroz from the US, Peter Brands and Richard Kier of the Netherlands, Mathieu Heredia of France, and Ronnie Hara of Brazil (by way of Japan), to Taipei for a week-long workshop on the future of case technology.

The 7-strong team brainstormed, hemmed and hawed – and this workshop resulted in the development of a new



Delegates can try out a game being developed by a game developer at Cooler Master's booth



A Cooler Master MasterCase getting a spray-paint treatment at their booth



concept case – the MasterConcept, that combines the best of Cooler Master’s heritage, and cutting-edge product design, thanks to the feedback from world’s leading modders and super users. As such, the MasterConcept is the ultimate makers’ case; its super flexible interior and exterior modularity allows anyone to create a PC that is uniquely theirs in form and function.

The ideas incorporated in the MasterConcept led directly to the creation of the MasterCase, which is being showcased by eight makers inside the Cooler Master’s booth at Computex. These eight makers include world-class case modder Lee Harrington, artist and sculptor Ron Lee Christianson, independent games designer Dave ‘drdaviem’ Cooper, as well as industrial designer Lawrence Lee, and makers Yu-

Kai Tai and Kai-Yu Kamm of MakerBar Taipei.

Cooler Master is also in the midst of rolling out the new branding throughout the company’s product line, and is expected to take some time as the company is also in the process of slimming down their product line, to simplify customer’s purchase experience.



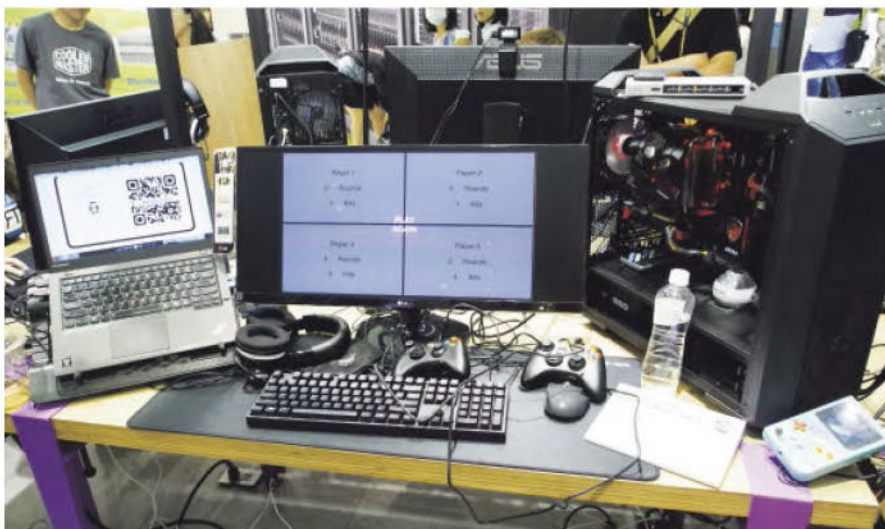
One of the winners of Cooler Master Case Mod competition



A cool bar-mixer contraption built right into a Master Case



One of the entries of Cooler Master Case Mod competition



A game developer's setup at Cooler Master's booth



One of the entries of Cooler Master Case Mod competition



# Cooler Master 2015 Lineup

Apart from the brand refresh, Cooler Master also introduced a new case, as well as several new products that is coming down the pipeline in the next few months. The new products will be coming to stores soon, along with the new storefront revamp

## MasterCase

The big daddy for Cooler Master is the new MasterCase. Based on the MasterConcept case, the MasterCase is a modular PC case that can fit the needs of users. The hero model for this round is the MasterCase 5, which is designed to fit a full motherboard, well everything else you need.

What is new this time around is that Cooler Master incorporated many features from its iconic products into the MasterCase, and also introduced the concept of modularity to the case for the user. Thanks to the Free-Form Modular System, the MasterCase gives users flexibility on how they want to arrange their components in the belly of the system. Move around drive bays to fit longer cards, or cram the case with as many drive bays the user needs.

Not only you can change the internals of the case, the outside of the MasterCase is customizable too. Change the side panels, front panel, top grill – users can also change the I/O panel as well – everything is modular, and is up to the user's discretion on how his or her CPU will look like. Right now there is only one mid-tower size, but Cooler Master hinted of both larger and smaller models coming in the pipeline.



## MasterPower

Even the power supply units (PSU) are getting a makeover. As with the MasterCase, the MasterPower line will come in three flavours – standard, Pro and Maker. The models will have digital readout thanks to the USB connectivity to your motherboard. It is also rated as 80 PLUS Titanium, which promises better power efficiency for their PSUs.

Furthermore, there is the upcoming MASTERPOWER Mobile App, where you can check and control all key power parameters – even when you are away, and your computer is in sleep mode. Using Bluetooth v3.0 you can track the parameters of your PSU – right in your mobile device.

## MasterLiquid

If you are looking to liquid-cool your system, the new MasterLiquid can be your ticket. With a powerful pump that is designed to connect directly to the reservoir to save space and be a more efficient way to transport the coolant straight to the radiator and cooling block. It is an integrated open-loop cooling system – which means the coolant needs to be poured in manually – but it is compatible with the FreeForm modular system so it can be placed anywhere in the MasterCase without any modding required.



The MasterLiquid set, complete with extra fittings

## MasterAir

Powered by CoolerMaster's exclusive 3DVC (3D Vertical Chamber) technology which combines both the Vertical and Horizontal Vapor Chambers usually found in normal CPU coolers into a single unit – 3DVC greatly increases heat dissipation over a larger surface area via direct contact – up to 15% improvement can be achieved with the 3DVC.

## MasterSounds

Gaming (or general PC experience) is not complete without an audio experience. The MasterSounds continues the modular building idea of the Master series, and



MasterSounds gives users a choice on what drivers they want

brings it to the audio realm. Users can literally change the audio driver so it can be tailor-made to the user's needs. With a three-tier noise-suppression built-in, it will completely cocoon the users from the outside world. Plus, the MasterSounds will feature line-in, USB and Bluetooth connectivity in the same unit – so that users can connect to any device they have for the ultimate audio enjoyment.

## MasterMouse

It is not complete without the mouse for desktop gaming. Thus Cooler Master will be releasing their new interpretation of the gaming mouse – the MasterMouse. What sets this apart is the customisation built into the mouse. Cooler Master will be offering different palm covers to accommodate larger or smaller hands, and even will offer it with different coatings and texture to suit everybody's needs. With 16.8 million colour combination for the LED illumination, and SlideSensor technology which allows users to physically adjust the sensor location to fit your grip – the MasterMouse will be a force to be reckoned with.



MasterMouse modability showcased here



# Be a Maker Again

At COMPUTEX we see Cooler Master making itself a maker brand again. We talked to Hanif Wang, Senior Specialist, Strategic Communications on where Cooler Master as a brand is heading.

## Can you share on how the journey – going from the old Cooler Master to the new look that you guys have right now?

It's pretty easy. About 12 months ago, we started to look back to see what is Cooler Master in essence, and what we represent. Definitely looking on what message we want to tell to the public. We realised we have so many products in our line-up. How can customers tell what is our product? Just by the logo? That is not enough. So we started to look back, way back in the beginning with our founder, Roger Lin. He started the company – with no support or funding – and produced our first product – a CPU heatsink. He then went on to make the first aluminium PC case – the ATCS around 15 – 16 years ago. It was a big deal back then. He loves to innovate – and enjoy creating a product that can be enjoyed by everyone, and everyone can do whatever they want.

Of course back then when they said 'do whatever they want' – it means modifying their PCs right? But today we have taken it to a whole new level with our new product. Back then, Roger was the first manufacturer that allowed customers to dabble with his product – and he allowed people to dabble around

Roger became a maker – of course in those days the word maker does not have the same meaning as we have today.

## Was there anyone outside of Cooler Master involved in the creation of the Master Case and/or Master Concept case?

The prototype idea has been in tinkering stage before we invited the makers. We did invite other modders from around the world to be involved in the conception of the prototype. We asked them to play around with our prototype, and their brainstorm sessions evolved and was turned into the Master Concept, which then turn into the Master Case series as you can see today.

## How did you re-integrate the maker spirit back into Cooler Master's DNA?

We went back to our roots, and we looked back at the ATCS case, the Cosmos case and the Stacker case. We imagined how all three would look like if we integrated everything into one – thus born the Master Case. We also integrate by allowing more freedom for customers to tinker around with their Master Case – further enhancing the new maker DNA in Cooler Master. Of course we didn't stop

with the Master Case; we went ahead and revamped all of our product line. All of our products now can be customised to the user's needs and wants.

## With the new Master Case line, will you consolidate your other case models into the line, or will there still be separate models?

As you know, Master Case is a modular case – so we can't call the non-modular models as part of the Master Case Family. We will have different models in the pipeline to cater for this market, and that will be coming soon.

What about your accessories? Are you renaming them to fit the Master Case line?

Yes, our keyboards will be renamed as Master Keys, our mouse to be named as Master Mouse and so on. Some of our products are still in discussion on how the names will be like, but we will be using the Master moniker – complete with different levels to identify the product's range in the catalogue.

## As for the new store-front concept you showcased in COMPUTEX, will it be replicated with your reseller partners all over the world?

We hope that our channel partners will adopt the new concept, and we will be talking to them in the upcoming months for education of our new brand outlook. We will select the stores that fits our requirements – especially in term of floor space. We will refine our design further after COMPUTEX.

## Where do you see the brand in the next five years?

That is a great question. Cooler Master has been around for 23 years, and we have been innovating all these time. We think the future is modular, as referenced with our new Master Case. We are committed to the design. What I want to see in the next five years is a scenario where customers can walk into a shop, and purchase a Master Case, select the accessories – front panel, side window panel and what not – and they can walk out with a case they can call their own. We also want to see this same scenario happen online – depending on region availability.



# Team Group

Team Group is a well-known name in the industry for their memory solutions, and at COMPUTEX, they displayed a variety new and exciting products that we may be seeing in our hands soon.

Like many manufacturers, they are focusing their production this year towards DDR4 RAM, as it is the new standard RAM module for Intel's Skylake processor motherboards. One of the RAM kits that we saw feature eight 16GB RAM sticks totalling up to 128GB. A

number that was usually reserved for servers only several years ago.

Apart from RAM modules, Team Group is also famous for their USB drive products, and like many others, are also in the bandwagon in creating products to support the new USB Type-C connectors. One unique product from Team Group that was showcased at COMPUTEX is their new M152 USB drive. Not only it supports USB On The GO (OTG) functions, it features a wireless dongle built into the thumbdrive. With this, you

can mirror Android device (for now) on your computer screen simply by just plug-and-play.



Some of the memory solution on display



One of the many displays at Team Group's booth



That is 128GB of RAM



An award winner for an innovative product

# ZOTAC



For a company that is famous for their small form-factor PCs, ZOTAC is a

significant player in the graphics card segment. Like many of its contemporaries, ZOTAC will be coming out with GPUs using the NVIDIA GTX 980 Ti chip.

The star from ZOTAC this time around will be the GTX 908 Ti Arctic Storm GPU. It will have a base clock of 1025 MHz, and a boosted clockspeed of 1114Mhz, making it an overclocked card right out of the box. It will also feature a hybrid air plus liquid cooling solution, as well as carbon ExoArmor surrounding the fans. Plus, there is an ArcticStorm-themed backplate for stability. If a bit more power is your thing, the GTX 980 Ti AMP! Edition is your ticket. With a base clock of 1051 MHz, and a boosted clock

of 1140 MHz, this will drive your gaming sessions to the limit.

As for their Mini PC lineup, ZOTAC have several that should be exciting and drool inducing. This includes a new E-Series ZBOX that is powered by Intel's 5th Generation Core processor, as well as NVIDIA's GTX 960M GPU for a full HD gaming in a compact form factor. Meanwhile the Nano series of the ZBOX family combines powerful processing in a small form factor – small enough that it fits within the VESA mount dimensions. Lastly, the MA760 is the big daddy as it supports 4K playback, outputted to a 2 x 2 array monitor, thanks to AMD's Eyefinity as well as the AMD FX APU.



A Broadwell E Series ZBOX on display



The Arctic Storm GTX 980 Ti.



One of the many ZBOX Nano on display

# Corsair

Hidden in a room, away from the trade-show floors – Corsair showcased their 2015 lineup of products that is aimed for modders and gamers alike.

The first big ticket item is the introduction of their first barebones system for the 4K living room. Called the Corsair Bulldog, it features enough space for a mini-ITX motherboard, as well as a custom-made water-cooling system for the CPU. It accepts an SFX PSU, and even a full-sized graphics card, paired with Corsair's GPU water-cooling system.

Talking about the GPU water-cooling, the HG10 combines a blower-fan and a bracket that you can attach Corsair's CPU water-cooling block. This means no specialised cooler for the GPU, but you have to get another CPU water-cooling system into your system.

Apart from the new chassis, Corsair also featured their line of mechanical keyboard, which includes the new Strafe keyboard, which feature only a single LED light colour, instead of the rainbow colour spectrum.



Colourful keyboards indeed



The inside of the Bulldog case



Bulldog when it is all kitted up



Corsair's updated take on GPU watercooling

# Shuttle

As the pioneer of the Small Form Factor PC design and manufacturing, Shuttle once has again demonstrated its advanced small form factor design and creates a brand new member, the XPC-PLUS to XPC product family with only 0.5-liter size but with stunning outlook and reliable performance.

The core unit features many different CPU options, ranging from the Intel Atom processor, all the way to an Intel Core i7. It has an extensive I/O connectivity, with HDMI, mini DisplayPort, RS232, USB 3.0/2.0, and

Gigabit LAN built in.

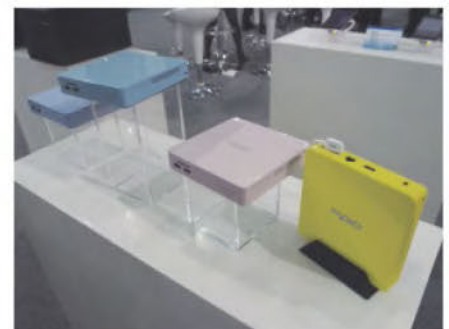
What makes this model special is the additional box that the main unit can connect to, called the NC Discrete box. The NC series discrete box comes in two options, either the AMD Radeon R7 M350 or the AMD Radeon R7 M365. As long as the main unit is docked to the NC box, the system's graphic power is boosted, making it a good gaming machine in a small form factor.



The new XPC Plus from Shuttle



A Shuttle PC running gaming benchmarks



Some of the more colourful Shuttle offerings



# Ducky

Many of us would agree that typing on a mechanical keyboard is an experience by itself. Ducky certainly agrees, as they specialise in creating mechanical keyboards for all users – not just gamers, but for everyday typists as well.

While it is not their final model, the upcoming Shine 5 is a great example on how the company thinks for everyone. With the Shine 5, they used not one, but two PCBs, so it is more durable, thus making the keyboard last longer. It is

also the company's first full RGB LED model, with a range of colour combination that can be controlled on the keyboard itself, without the need of any additional software. The Shine 5 will be available with both ABS and double-shot (dual-injection) moulding.

Ducky is also in the midst of developing their own range of gaming peripherals, starting off with a gaming mouse. It has a great ergonomic design, and is made out of PBT plastic, making it feel nicer in the hands. As with the Shine 5, it uses hardware key combination to change its DPI settings.



The new Shine 5



Shine 5 with different LED colours activator



Ducky's upcoming mouse

# Swiftpoint

Started off as a Kickstarter project, Swiftpoint quickly became a must-have pointer device, regardless of what product you have currently. The latest Swiftpoint GT was featured in COMPUTEX as the company are looking for world-wide distributors among the attendees of the

trade show.

The Swiftpoint GT pointer device is a combination of a regular mouse, as well as a stylus in an ergonomic and compact form-factor that mimics holding a pen. It features both RF and Bluetooth connectivity, and it can connect to just

about any system out there. With just a tilt, the Swiftpoint GT turns from a mouse-like pointer device, to a stylus usage experience. In this mode, it emulates how your finger will work while touching the screen. So pinch-to-zoom, swiping and other similar gestures will be replicated nicely in this mode. It won CES 2015 Best of Innovation award at the event earlier this year. 📺



The Swiftpoint GT



It is quite small

# TEST LAB: The Tools

Here at the CHIP Test Labs, we adhere to the high requirements set by the CHIP International Testcenter standards. This means that everything here -- from our own personal knowledge and to our trusted tools of the trade -- are meant to provide the most optimised, unbiased and comprehensive review to every product that comes through our doors. As thus, our test bed tools are specifically picked to get the most out of every test we perform

## intel Intel Platform

### Motherboards

Intel DZ77GA-70K  
MSI Z87 MPower

### Processors

Intel Core i7-3770K  
Intel Core i7-4770K

### Graphics Processing Unit

MSI GeForce GTX 980 GAMING 4G

### CPU Cooler

Cooler Master X6

## AMD AMD Platform

### Motherboards

ASUS Crosshair V  
ASUS A88X-Pro

### Processors

AMD FX-8150  
AMD A8-3850

### Graphics Processing Unit

ASUS Radeon R9 290X

### CPU Cooler

Cooler Master Hyper 212 EVO



## PSU, Storage & RAM

### Power Supply

Cooler Master Silent Pro Hybrid (1300W)

### Storage

Western Digital Black<sup>2</sup>  
Dual Drive  
Western Digital My Book Live Duo

### Memory

Kingston HyperX  
KHX1600C9D3K4/16GX  
Kingston HyperX FURY  
HX318C10FWK2/8  
Kingston HyperX  
Predator  
HX430C15PBK4/16

## Benchmark Software

### Operating System

Windows 7 Ultimate (64-bit)

### Futuremark

PCMark 8  
3DMark

### Industry Standard Benchmark Tools

AIDA64  
SiSoftware SANDRA  
Specy  
Unigine Heaven



# TEST LAB



## The Technologica Crux

Blessed Ramadhan to all of our Muslim readers. June has been a relatively busy month for us, what with COMPUTEX happening earlier in the month and a number of major device and component releases happening at the same time. There's also the Electronic Entertainment Expo, which we've written a bit about in our Lite n Leisure section. Which games have got you excited?

If you've been following our Facebook page this past month, no doubt you'll notice that we've shown glimpses of some of the products that we're reviewing this month. Chief of which is the newly-announced NVIDIA GTX 980 Ti graphics card, which features some pretty mind-blowing gaming performance out of the box.

Continuing the trend, we also have refreshed versions of ASUS' X99 Sabertooth and the MSI Z97A Gaming 6 motherboards, both featuring support for USB 3.1 connectivity. These are fairly new in the market, and at the moment there are very few device that support this standard, but the performance numbers are pretty good, as they're definitely a lot faster than even USB 3.0.



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## Ratings

Each product review is rated on a scale of 1 to 5 for different key parameters:



**PERFORMANCE** : Refers to the efficiency of execution

**FEATURES** : Rates the abilities and unique characteristics available

**DESIGN** : Varies according to product. Finished products - form factor and build quality. Hardware components - layout, size and cooling solution. Software - user interface

**VALUE** : Calculated from the performance and features of the product in relation to the price



## CHIP Awards



### CHIP Editors' Choice Award

Awarded to products that receive unanimous endorsement from all CHIP editors for its overall brilliance



### CHIP Outstanding Award

Reserved for products that combine astute technical performance with good quality and design



### CHIP Recommended Award

Given to products that possess singular quality worthy of a recommendation





### As Light As A Leaf

If you are looking for stylish yet affordable earphones, then you should take a look at the Sonic Gear Neo Plug Leaf. This earphone features amazing sound quality for its class, a high clarity built-in microphone and a tangle-free cable design. Additionally, it supports both smartphones and tablets with various silicone gel sizes.

#### Sonic Gear Neo Plug Leaf

**Price:** RM19.90

**Contact:** Leapfrog Distributions Sdn. Bhd

**Phone:** (03) 7803 6703

**Info:** mysonicgear.com

### Bag For The Seoul

Targus is one of the world's leading laptop case and accessory makers, and recently they have released the Targus 15.6-inch Seoul Backpack. This backpack is a travel-friendly backpack that features a unique full-opening design on the back panel which allows the bag to be placed securely on a trolley. It also comes with a ventilated air mesh back padding and an adjustable shoulder strap.

#### Targus 15.6-inch Seoul Backpack

**Price:** RM 269

**Contact:** Ban Leong Technologies Sdn Bhd., Innoteq Apex Sdn Bhd, M-Link system (M) Sdn Bhd, Servex (Malaysia)

**Phone:** (03) 7956 6300, (03) 9286 5128/5768, (03) 7728 9003, (03) 8024 6688

**Info:** www.targus.com/my/



### Its Just Magical

When it comes to tablets nowadays, productivity becomes the key to selecting the right one, and the MAGIC Zlate 11 is the way to go. It features an 11.6-inch 1366 x 768 Capacitive touchscreen and is powered by an Intel Pentium N3530 2.58GHz. Graphic-wise, it is running on an integrated Intel Gen 7 GPU. It has 4GB RAM with 64GB storage expandable via SD card. Its most discernible feature is its detachable keyboard and WIDI display. It also has a dual cameras for HD conferencing and high quality photos.

#### Magic Zlate 11

**Price:** TBA

**Contact:** Advance TC Ltd

**Phone:** (03) 7722 3990

**Info:** www.advancetc.com

## The Mamba Strikes Back

Gamers know the name Razer well, and they know the Razer Mamba even better, and this year, Mamba is back as the Razer Mamba Tournament edition. This iteration features 16,000 DPI 5G laser sensor, 1,000Hz ultrapolling with 1ms response time, Chroma lighting with inter device synchronisation and allows up to nine independently programmable buttons with tilt and click scroll wheel. Additionally, it also comes with Razer Synapse.



### Razer Mamba 2015

**Price:** USD 149.99 (~RM 564)

**Contact:** Ban Leong Sdn Bhd

**Phone:** (03) 7956 6300

**Info:** [www.razerzone.com](http://www.razerzone.com)

## A NAS Server You Can Trust

DS715 is an expandable NAS server, equipped with a quad-core processor and hardware encryption engine which delivers speedy performance for small business workgroups with growing needs. With dual LAN ports featuring Failover and Link Aggregation, plus High Availability, DS715 offers a reliable storage solution to protect your precious data. It comes with Quad Core 1.4GHz Annapurna Labs Alpine AL-314 and 2GB RAM. It has two drive bays which can store a maximum of 16TB.

### Synology Diskstation DS715

**Price:** TBA

**Contact:** Build Technology Supply Sdn Bhd., Eternal Asia(M) Sdn Bhd

**Phone:** (03) 7955 3699, (03) 5613 5600

**Info:** [www.synology.com](http://www.synology.com)



## Go Speed Racer Go

Ever played a racing simulator only to find that the controls does not match the feedback? Well with the Logitech G29, you can now experience racing games in a whole new perspective. This console exclusive device comes with exclusive Project Cars skin and realise your racing passion as it gives a dual motor force feedback which lets you feel every detail. It is also built with helical gearing with anti-backlash for tight smooth and precise control. Additionally, the floor pedals and the 6-speed gear shifter completes the experience.



### Logitech G29

**Price:** TBA

**Contact:** Ingram Micro Sdn Bhd., MCL Sdn Bhd., M-Link Sdn Bhd., Kaira Technologies Sdn Bhd

**Phone:** (03) 7955 8188, (03) 8023 3800, (03) 7728 9003, (03) 7955 3669

**Info:** [www.logitech.com/en-my](http://www.logitech.com/en-my)



## Power Play

Gamers are serious about the hardware they need to play the latest games, and the new ASUS ROG G751 gaming laptop attends to the need seriously as well. This gaming beast comes with a 17.3-inch FHD IPS display, and runs on Windows 8.1. It is powered by an Intel Core i7-4870 processor and an NVIDIA GeForce GTX980M 4GB with G-SYNC display technology. It can support up to 32GB RAM and 1TB HDD or 512GB SSD. It has dual fans with copper heat to keep the temperatures low while maintaining guaranteed stability.

### ASUS ROG G751

**Price:** RM8,499

**Contact:** Build Technology Supply Sdn Bhd., ECS Astar Sdn Bhd

**Phone:** (03) 7955 3699, (03) 6286 8222

**Info:** [www.asus.com/my/](http://www.asus.com/my/)



## Efficient Value

Budget smartphones have become the norm for many citizens in Malaysia and with the release of the Microsoft Lumia 540 Dual SIM, everyone can now get data access on the cheap. The device runs on Windows 8.1 with Lumia Denim, and comes with a 5-inch Laminated HD display. It is powered by a 1.2 GHz quad-core Qualcomm Snapdragon 200 processor. It has an 8MP auto focus main camera and a 5MP wide angle front facing camera. It has 1GB RAM and 8GB storage expandable up to 128 GB via microSD.

### Microsoft Lumia 540 Dual SIM

**Price:** RM569

**Contact:** Microsoft Malaysia

**Phone:** (03) 2179 6838

**Info:** [www.microsoft.com/my](http://www.microsoft.com/my)

## Productivity Anywhere

Logitech has released a portable, high productivity wireless mouse which works regardless of what you are doing. It features a Darkfield Laser Sensor which tracks under any surface including glass. It is small enough for transport yet its rubberised grips make it comfortable for long usage. It also features dual connectivity, allowing it to connect to Windows or Mac computers via the Pico Unifying Receiver or any Bluetooth Smart technology. This mouse can also be configured to use the touch gesture controls on Mac computers for added precision.

### Logitech MX Anywhere 2 Wireless Mobile Mouse

**Price:** RM329

**Contact:** Ingram Micro Sdn Bhd., MCL Sdn Bhd., M-Link Sdn Bhd., Kaira Technologies Sdn Bhd

**Phone:** (03) 7955 8188, (03) 8023 3800, (03) 7728 9003, (03) 7955 3669

**Info:** [www.logitech.com/en-my](http://www.logitech.com/en-my)





### The Fitness Surge

Fitness has become digitalised, and in order to do more, intelligent devices are created to help complement our fit lifestyle and one of these devices would be the Fitbit Surge. This device is a fitness watch that combines popular features such as GPS, PurePulse wrist based heart monitor, all day fitness tracking programs with a smartwatch functionality. It features multiple sports mode to record running, biking cross training, and cardio workouts. It is also equipped with advanced eight-sensor technology for various sensory measurements and it can last up to seven days on a single charge.

**Fitbit Surge**

**Price:** RM968

**Contact:** Fitbit

**Info:** [www.fitbit.com](http://www.fitbit.com)

### Gamers Delights

In light of all the latest games being released, MSI has recently introduced their latest R9 390X Gaming 8G graphic card which features a massive 8GB GDDR5 VRAM and comes with Twin Frozr V cooling. It comes with a core clock of 1100MHz and a memory clock of 6100MHz and it has DisplayPort, HDMI, DL and DVI-D ports. This device will also support the latest Direct X 12.

**MSI R9 390X GAMING 8G**

**Price:** USD 749 (RM2,818)

**Contact:** AMD Malaysia Sdn Bhd

**Phone:** (03) 8316 3512

**Info:** [www.amd.com](http://www.amd.com)



### The Carrizo Comes

Recently, AMD has announced its 6th generation A-series processor, codenamed Carrizo. This processor is the most versatile notebook processor ever produced. It features the world's first HEVC hardware decode support for notebooks, and the first Heterogeneous Systems Architecture (HAS) 1.0 compliant design and the first ARM TrustZone capable high performance APU. This new processor brings the number of computing cores up to 12 while building on the third generation of Graphics Core Next architecture.

**AMD A-series Carrizo**

**Price:** TBA

**Contact:** AMD Malaysia Sdn Bhd

**Phone:** (03) 8316 3512

**Info:** [www.amd.com](http://www.amd.com)





### Speeding Processes

ADATA technology, a leading manufacturer of high performance DRAM modules has recently launched the ADATA XPG Z2 DDR4 which has a record breaking 4034MHz clock frequency which would sit well with both gamers and overclockers alike. This device is also Intel X99 compliant, plus is future proof as the upcoming Skylake motherboards will feature DDR4 RAM slots.

#### ADATA XPG Z2 DDR4

**Price:** TBA

**Contact:** Achieva Technology Sdn. Bhd., Alphamatic Sdn.Bhd., Power Cellular Sdn Bhd

**Phone:** (03) 7955 1768, (03) 8061 9836/8060 3836, (03) 7982 8899

**Info:** [www.adata.com](http://www.adata.com)

### Dual Compatibility

Kingston makes another interesting device worth taking a look, and it is the Kingston DT Micro Duo 3C USB Type C flash drive which has a dual interface with the traditional USB 3.0 and the new USB Type C ports which is an up and coming reversible connector which allows you to never plug in the USB on the wrong end ever again. It features up to 64GB capacities and has transfer rates of 100MB/s read and 10MB/s write



#### Kingston DT Micro Duo 3C

**Price:** TBA

**Contact:** Amble Action Sdn Bhd., Convergent Distribution(M) Sdn Bhd., Ingram Micro Malaysia Sdn Bhd

**Phone:** (03) 7665 3939, (03) 2144 1881, (03) 7952 8188

**Info:** [www.kingston.com](http://www.kingston.com)

### 4K Living Room Gaming

Corsair, a renowned PC gaming hardware leader, has recently unveiled the Bulldog at COMPUTEX which is a first of its kind DIY that is designed to bring 4K gaming to the living room. Its chassis is made out of highly ventilated, stylish console design which enhances the living room and keeps the components cool while it uses a mini ITX motherboard for the latest multi-core desktop PC CPU. For cooling, it utilises a Hydro Series HSSF small form factor liquid cooler.



#### Corsair Bulldog DIY 4K Gaming PC

**Price:** USD 399 ( RM1500)

**Contact:** Cudo Technologies (M) Sdn Bhd

**Phone:** (03) 2148 1177

**Info:** [www.corsair.com](http://www.corsair.com)

## An Eye On Safety

Leaving your home unattended nowadays can make us worry more than usual, but with the Phillips In.Sight Wireless HD Home Monitor M120E, you can now keep track of your home's interior wirelessly. With this device, you can stream live video and audio from your home to your smartphone and tablet with the InsightHD app. This device features infrared viewing for night viewing while also utilising a wide angle lens for better view.

### Phillips In.Sight Wireless HD Home Monitor M120E

**Price:** RM629

**Contact:** Bluelogic Enterprise Sdn Bhd, Tracklink Resources Sdn Bhd

**Phone:** (03) 7877 1019, (013) 3114949

**Info:** [www.gibsoninnovations.com](http://www.gibsoninnovations.com)



## Become The Night

Why settle for a plain Playstation 4 when you can get the limited edition

Batman: Arkham Knight Limited Edition Playstation 4 instead. This console of justice comes with a matching Steel Grey Dualshock 4 controller plus the Batman Arkham Knight Steelbook and DLC pack with a PS Plus 12 month free ticket and an extra year warranty service. This also includes the Batman: Arkham Knight game together with the bundled package.



### Batman Arkham Knight Limited Edition PS4

**Price:** RM1,829

**Contact:** Sony (Malaysia) Sdn bhd

**Phone:** 1 300 88 1233

**Info:** [www.sony.com.my](http://www.sony.com.my)

## Surveillance Hassle Free

The MSI Panocam is a 360 degree fish eye lens premium wi-fi camera with a 360 degree viewing angle. It supports up to 1600 x 1600 resolution at H.264 compression, while its two way streaming allows family members to watch their homes halfway across the world. It has a microphone and speaker functionality while supporting a microSD card of up to 32GB. Additionally, it can also be wall mounted for a better viewing angle.

### MSI Panocam

**Price:** RM899

**Contact:** MSI Malaysia Office

**Phone:** 1 300 22 1386

**Info:** [my.msi.com](http://my.msi.com)





# Raspberry Pi 2

**Price** Starter kits from RM 210  
**Info** Element 14  
**Phone** 1800 88 6223  
**Contact** my.element14.com

## Specifications

**CPU:** 900MHz quad-core ARM Cortex-A7 CPU  
 Broadcom BCM2836  
**RAM :** 1GB  
**Storage:** microSD slot  
**Connectivity:** 10/100 LAN  
**Ports:** USB x 4, 15-pin MIPI camera interface (CSI) connector, HDMI, Composite video via shared 3.5mm jack  
**Others:** 17 x General Purpose Input/Output pins, microUSB power port  
**Size:** Raspberry Pi (85.60 mm x 56.5 mm)  
**Weight:** 45 grams

## RATINGS

### Performance



### Features



### Design



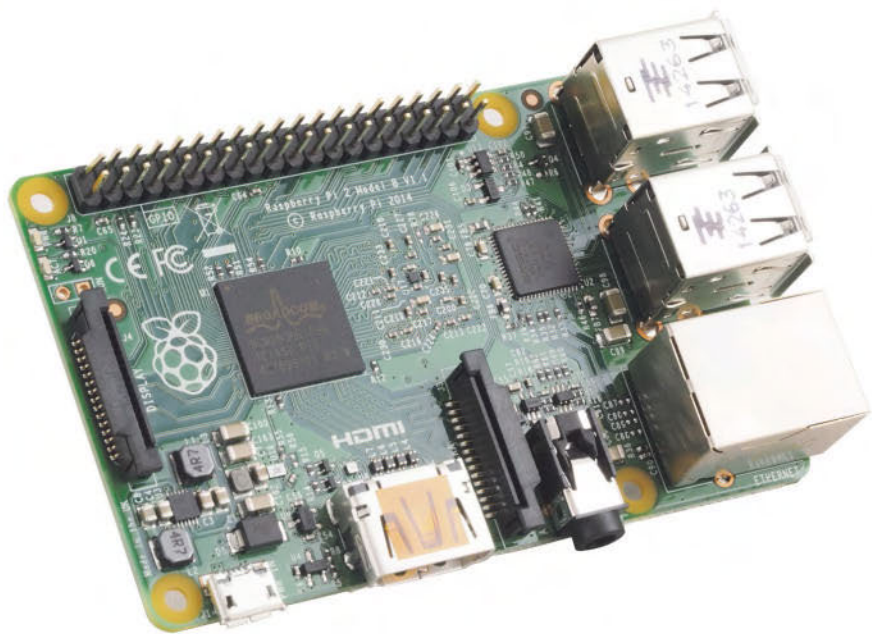
### Value



**+** Great for early programming tool  
 Complete system on a board  
 Customisable



**-** No dedicated composite video port  
 Need basic programming skills to fully utilise potential



# A Second Serving of Pi(e)

Raspberry Pi2 continues the tinkering spirit of the original tinkerer's system on a board

By Sharil Abdul Rahman

**D**o we have a tinkerer in the house? If you are this is the device for you. What started off as a simple board to teach programming to kids by the raspberry pi foundation in the UK, it has become one of the more popular system on a board on the market now. It has since gotten new form factors and now, a new upgrade. Say hello to the Raspberry Pi 2.

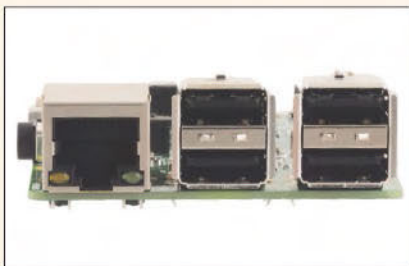
On the outset it still has the same form factor as the original model B. There are a few significant changes however - the placement of the ports has been switched around, the location of the camera and DSI ports are also different in the Pi 2. Furthermore, the Pi2 has similar complements of port as the B+ - namely four USB ports, a gigabit Ethernet port, combo audio and composite video port, and a full sized HDMI port. Like it's brothers the Pi2 uses a 5 volt microUSB jack for power.

Loading the operating system onto the Pi2 is done by the micro SD card slot- an upgrade from the original SD slot. It runs primarily Linux, but Microsoft just announced a Windows 10 version that supports the Pi2 called Windows 10 IoT, or Internet of Things.

What makes the Raspberry Pi2 more than just a mini computer is the included GPIO pins, which can be used in multitudes of ways for a project. All you need to do is to create scripts to access the pins to link to hardware connected to it. There are a bunch of projects that is available online - ranging from simple home automation to complex robotic builds. The sky is the limited by your imagination.

## CHIP CONCLUDE :

A great platform for kids and adults alike to start programming on.



Full selection of I/O ports given with the Raspberry Pi2



# A Long Way to Zoom

Small and compact, yet it still comes with a long zoom lens

By Sharil Abdul Rahman

Bringing around a camera is a prerequisite during holidays. Especially when you are around family and friends - having a good camera is important to record your memories. But what if you do not want to lug around your heavy DSLR, or compacts are just not your thing? Maybe you should check out the new Sony Cybershot QX30.

Looking suspiciously like a lens cut off from a digital camera, the QX30 is actually a full camera on itself. What you are missing are actually just the screen and a flash. Otherwise, everything you need in a camera is in the puck-like body.

Inside the body is a 20.4 megapixel sensor, which is mated to a 30x zoom lens. This gives it a great reach in taking photos from a long distance. While the lens is not the greatest - it only has an aperture of f/3.5 at the widest, and goes down to f/6.3 at the longest zoom - the fact that Sony managed to cram that into something you can easily slip into your bag/purse is an engineering marvel by itself. What makes this camera puck interesting however is how it operates.

What you need to do is just pair it with your smartphone - iOS or Android in this case - and you get full control over the

camera functions right in your smartphone. Via the Sony Playmemories app, you can then control everything that you expect in a camera - shutter control, aperture size, ISO settings and so on. Pairing the camera with your smartphone is as easy as touching the two devices, as the QX30 comes equipped with NFC for easy pairing.

Thanks to the built-in holder clip, you can attach the QX30 to your smartphone easily - it goes up to a 5.5 inch screen device with no problem. If you want to pair it with your tablet, don't worry - Sony sells a tablet clip too.

Our only concern with the QX30 is that it does not come with a flash on board - the 600mAh battery may be the culprit to this omission. It is hopeless in true lowlight, but thanks to ISO3200, moderate low light scenes are still acceptable. Ooh another thing - the QX30 charges using a microUSB port, so you can charge this puppy up on the go with your trusty power bank. 🇲🇾

## CHIP CONCLUDE :

In something smaller than a can of soda, you get a camera with 30x zoom reach. What is not to like about this thing?

## Sony Cybershot DSC-QX30

**Price** RM 1,377  
**Contact** Sony Malaysia  
**Phone** 1300-88-1233  
**Info** www.sony.com.my

### Specifications

**Sensor:** 1/2.3 type (7.82mm) Exmor R CMOS sensor  
**Resolution:** 20.4 megapixels  
**Zoom Range:** 30x, f/3.5-6.3 (4.3-129mm)  
**Display:** None  
**Connectivity:** WiFi/NFC  
**Storage:** MicroSD, up to 64GB  
**Mount:** None

### RATINGS

#### Performance



#### Features



#### Design



#### Value



**+** Compact  
 Long reach with zoom  
 Easy to use with app

**-** WiFi connection can be disrupted



How the QX30 looks like when mounted on a smartphone



You can see the microUSB port and microSD slot in this image



# NVIDIA GTX 980Ti

**Price** US\$650 (~RM 2,500)  
**Contact** NVIDIA Corporation  
**Info** www.nvidia.com

## Specifications

**GPU:** NVIDIA GTX 980Ti  
**Memory:** 6GBs GDDR5  
**Ports:** HDMI x1, DVI-D x1, DisplayPort x 3  
**Slot Size:** Double  
**Dimensions:** 109.2 mm x 266.7mm

## RATINGS

### Performance



### Features



### Design



### Value



**+** Great performance  
 More affordable than  
 Titan X with similar  
 performance



**—** Temperature

## BENCHMARK RESULTS

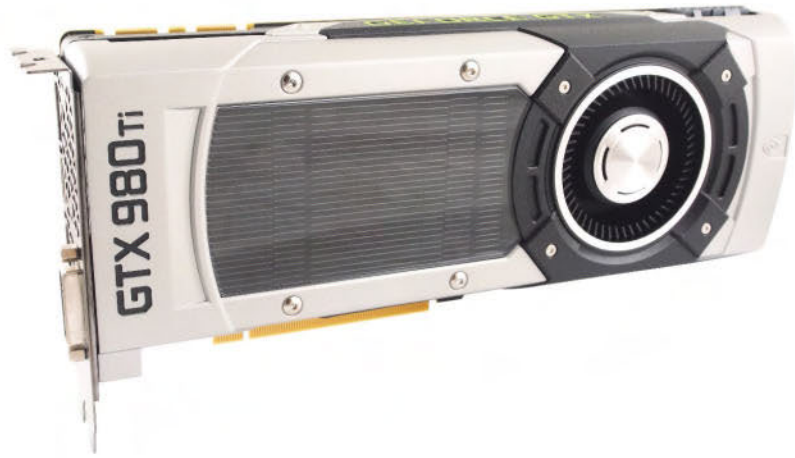
**Fire Strike:** 14,227 points  
**Fire Strike Extreme:** 7,427 points  
**Fire Strike Ultra:** 3,981 points



Enough output ports for a wall of monitors!



No backplates here



# All Hail The New Graphics Overlord

NVIDIA's GTX 980Ti is the new graphics standard for beyond 1080p gaming *By Nazrin Zain*

NVIDIA's Titan X graphics card is widely considered to be the cream of the crop when it comes to desktop graphics processing units, and with good reason. That being said, it's definitely on the expensive side when pricing comes into consideration. With that in mind, NVIDIA announced the NVIDIA GTX 980Ti.


As far as components go, the GTX 980Ti is similar to the Titan X in many ways. For starters, both graphics card use the same Maxwell graphics processor, with the only notable difference being that the GTX 980Ti having a slightly lower shader count at 2,816 and the memory size, at 6.0GB vs the Titan X's 12GB monstrosity.

As far as design goes, the GTX 980Ti has the same design of many of its reference cards prior to it. Connectivity-wise, it features a whopping three DisplayPort ports, one HDMI port and one DVI port. To power up the card, you will need to hook up a single 6-pin and 8-pin PCIe power cable to the card, which has a TDP of 250W, which is considerably modest, for a card of this power.

With the 980Ti, NVIDIA is also set to introduce the DirectX 12 with feature level 12.1 that adds even more features to the DirectX12 API, including Volume Tiled Resource, Conservative Raster and Raster

Order Views that actually allows the GPU to render graphics more efficiently.

As we've mentioned before, the GTX 980Ti uses the same Maxwell GM200 GPU as the Titan X. That alone should be able to tell you how powerful this card is in terms of graphics rendering power alone. For 1080p gaming, the card is certainly overkill, and crunches all the games we can throw at it, be it Witcher 3, Crysis 3 or even Metal Gear Solid V: Ground Zeroes with absolutely no issues whatsoever.

This card is definitely made for the higher 2K and to a degree, 4K gaming, or for heavy-duty video rendering work. Being a reference card, it does run a bit hot when used to play games or render videos, but we're also fairly certain that as more companies start cranking out their own version of the NVIDIA flagship card, we'll be seeing better temperatures and even better performance all around as this card is bound to be factory-overclocked by these manufacturers. 

## CHIP CONCLUDE :

NVIDIA's GTX 980Ti is a beast of a GPU, and is THE card to go for a high-end gaming PC build. Performance-wise, it's almost on par with the overkill and overpriced Titan X, but at a price that's a lot more manageable.



# Larger Than Life


The Microsoft Lumia 640XL Dual SIM is a smartphone that is large to the palms of its beholder yet easy to handle, but can it manage to survive the strains of modern demands? *By Nicolas See Tho*

If there is one trend that has yet to fade, it would be the sizes of upcoming smartphones. While some have gone for sleeker designs, Microsoft has other plans when it launched the Microsoft Lumia 640XL Dual SIM as it dwarfs many smartphones within its category.

Straight out of the packaging the device's size portrays a certain level of intimidation. It has a full polycarbon body, in a sleek, black colour. This device definitely requires both hands on deck in order to use optimally. One thing we noticed about the polycarbonate body is that it attracts oil stains easily which can dampen the aesthetics. However, the display is large and beautiful and it gives users plenty of visual room.

The main draw of this huge smartphone lies within its 13MP main camera which comes with LED Flash and Auto focus. This makes Skype calls a hassle free affair with clear calls being met with pristine images. For those who are often working on the go, this device comes bundled with a 12 month Office 365 Personal subscription. As some Windows users would verify, the Live Tile

feature on this device is hard to miss, but easy to love, as you can set your most important applications on the homescreen to give you live updates.

As for the phones performance, it provided ample amounts of satisfaction during the duration of our tests. It scored high marks with our AnTuTu benchmark, while also able to play graphically demanding games such as Asphalt with ease and without lag. Another good thing to note is its lengthy battery life that is perfect for those who are out the entire day as it lasted throughout most of the day. Additionally, the dual-SIM nature of the device makes it easier for users who have multiple networks to stay connected. 

## CHIP CONCLUDE :

The Microsoft Lumia 640XL Dual-SIM is an affordable smartphone which can provide high levels of productivity to the users. Those with small palms should take note however, that the devices size may make it troublesome to navigate.

## Microsoft Lumia 640 XL Dual SIM


**Price** RM929  
**Contact** Microsoft Malaysia  
**Phone** (03) 2179 6838  
**Info** [www.microsoft.com/my](http://www.microsoft.com/my)


### Specifications

**Display:** 5.7-inch IPS LCD capacitive touchscreen with Corning Gorilla Glass 3  
**Processor:** Qualcomm MSM8226 Snapdragon 400  
**Connectivity:** GSM / HSPA / LTE  
**Memory:** 1GB  
**Storage:** 8GB  
**Operating System:** Microsoft Windows 8.1  
**Camera:** 13MP (rear, 5MP (front)  
**Dimensions:** 157.9 x 81.5 x 9 mm  
**Weight:** 171g

### RATINGS

Performance	
Features	
Cooling	
Value	

 User-friendly  
 Beautiful display  
 Good camera quality

 Too large for one handed usage  
 Battery casing is too flimsy  
 Phone body susceptible to oil stains



### BENCHMARK RESULTS

**AnTuTu:** 11,711 points



The large camera lens dominates the back facade of the phone



# Xiaomi Mi4i

**Price** RM 749  
**Contact** Xiaomi  
**Phone** 1-800-281-182  
**Info** www.mi.com/my

## Specifications

**Display:** 5.0 inches @ 1080 x 1920 pixels  
**Processor:** Qualcomm Snapdragon 615  
**Connectivity:** 2G/3G/4G LTE, Bluetooth, WiFi  
**Memory:** 2GB  
**Storage:** 16GB  
**Operating System:** MiUi 6.0, based on Android 5.0  
**Camera:** 13 megapixel (back) 5 megapixel (front)  
**Dimensions:** 69.6 x 138.1 x 7.8 mm  
**Weight:** 130 grams

## RATINGS

### Performance



### Features



### Design



### Value



**+** Slim body  
Affordable

**-** No memory expansion



## BENCHMARK RESULTS

### 3DMark

**Ice Storm:** Maxed Out  
**Ice Storm Unlimited:** 7,981 points  
**PCMark for Android:** 3,955 points  
**Antutu:** 25,879 points



The camera module is paired with a dual-tone LED flash



# World Flagship Device?

Xiaomi's latest smartphone aims to be a world favourite – with no memory expansion

By Sharil Abdul Rahman

In a somewhat glitzy event in Delhi, Hugo Barra walked on stage and talked about making a world flagship phone. What he announced was the new Mi4i, and we have one in the labs. Is it befitting the moniker "world's flagship, or it is not for you?

As par for the course, Xiaomi's packaging is very simple yet functional. Fun fact – the pack is rated to stand abuse, as it can support a medium-sized adult on top. In the box, you get the aforementioned Mi4i, charger (first time the British three-pin charger is included in the box), headphones and USB cable. You have noticed that we didn't mention about the batteries, like the Redmi. Why? This is because Xiaomi elected to have the battery for the phone built-in, which is similar to the Mi4.

Underneath the polycarbonate body lies a Qualcomm Snapdragon 615, an octa core processor that features a four cores running at 1.7GHz, and another four cores running at 1.1GHz, for times you need the lower power usage. Paired with the processor is 2GB of RAM and 16GB of storage.

Holding the Mi4i is both comfortable and weird, as the back of the device is made out of polycarbonate. The white colour has a very nice matte finish,

that is very nice to hold, but may give false alarms as you may think that your grip on it is losing fast, when it is not. On the front, the five inch screen is manufactured using a One Glass Solution, which binds the screen, and touch digitizer directly to the Corning Glass 3, to eliminate air-gaps between the glass and display. It also comes with what Xiaomi call Sunlight display, which will automatically adjust the screen to suit the brightness of your surroundings.

The Mi4i is a great phone to own, but is fundamentally flawed. The model that is currently available from the Mi website only comes with 16GB of storage, and will not accept any expansion microSD modules. If the models starts from 32GB the lack of microSD slots would have been excusable, but with 16GB only models (which translates to only about 12GB after excluding the OS) available, we feel that it is not a worth buy at this juncture of time.

## CHIP CONCLUDE :

If you are looking for a mid-high range device that is great to hold in hand, this is a good choice. If you are happy with what storage you get that is.



# Red Hot RAM

ADATA's XPG Z1 is all about the performance

By Nazrin Zain

With the launch of Intel's X99 consumer-grade hardware, production of DDR4 memory has ramped up quite a bit as gamers and enthusiasts look to build hardcore PCs built for overclock and gaming. The impending arrival of Intel's Skylake processors also make this an opportune time for memory manufacturers to start cranking out their offerings, much like how ADATA has with the ADATA XPG Z1 DDR4 RAM sticks.


The kit that we received from ADATA is a 4GBx4 kit, which gives us 16GBs of DDR4 memory, and whilst the kit does state that it runs at 2,400MHz, this particular feature needs to be unlocked using the Intel Xtreme Memory Profile, which can be accessed via your motherboard's BIOS page.

One of the XPG Z1's claim to fame is its cooling performance, which in turn should help out when users begin to experiment with overclocking the RAM. This particular set features a 10 layer PCB with 2oz of copper that reduces electric resistance, hence consuming less power. This, coupled with the XPG Z1's red-coloured cooling fins with contoured designs symbolises ADATA's pursuit for extreme performance.

At stock, it's operating voltage is set

to 1.2V, which is quite low as some of the DDR4 memories we've seen so far are usually set to either 1.35V or 1.5V. Overclocking is one of the XPG Z1's stronger suits, as ADATA claims as under the right circumstances, it should be able to clock up to 3,333MHz.

And overclocking the RAM without tinkering too much with the voltage and latency numbers isn't too much of a hassle either as we managed to get it to run at about 2,800MHz with no issues. We're fairly certain if you can manage to tweak and experiment with the numbers even more, you should also be able to breach the 3,000MHz mark.

Another compelling feature about the XPG Z1 is that the kit comes in several varieties, including a variety of sizes, ranging from 4GBx2 to 4GBx4 kits to ones that have speeds of 2,133MHz right up to 3,333MHz right out of the box. 

## CHIP CONCLUDE :

The ADATA XPG Z1 is an excellent memory set that should satisfy the cravings of an overclocker a fair bit, thanks to its low voltage requirements and overclocking headroom that allows even the lower speed kits to be boosted up a fair amount.

## ADATA XPG Z1


**Price** TBA  
**Contact** Achieva Technology Sdn. Bhd.  
**Phone** (03) 7955 1768  
**Info** [www.adata.com](http://www.adata.com)


### Specifications

**Capacity:** 16GB DDR3  
**Frequency speed:** 2,400MHz  
**CAS Latency:** CL 16-16-16  
**Dimensions:** 203 mm x 167.64 mm

### RATINGS

**Performance**   
**Features**   
**Design** 

 Overclocking headroom Design

 Can be difficult to fit under big CPU heatsinks



### BENCHMARK RESULTS

**AIDA64 (Read):** 59,823 points  
**AIDA64 (Write):** 47,830 points  
**AIDA64 (Copy):** 60,259 points



The XPG Z1 comes in a variety of kit sizes, allowing you to have either a dual-channel or quad-channel memory build



# HTC One M9+

**Price** RM 2,599  
**Contact** HTC Careline  
**Phone** 1 800 88 9855  
**Info** www.htc.com/sea

## Specifications

**Display:** 5.2 inch Super LCD (1,440x2,560)  
**Processor:** MediaTek MT6795 @ 2.2GHz  
**Connectivity:**  
**Memory:** 3GB RAM  
**Storage:** 32GB (expandable via MicroSD)  
**Operating System:** Android 5.0 Lollipop  
**Camera:** 20.0MP Duo Camera (rear), 4.0MP Ultrapixel Camera (front)  
**Dimensions:** 151 x 72 x 9.6 mm  
**Weight:** 168g

## RATINGS

### Performance



### Features



### Design



### Value



**+** Performs great  
 Excellent camera



**-** Heats up

## BENCHMARK RESULTS

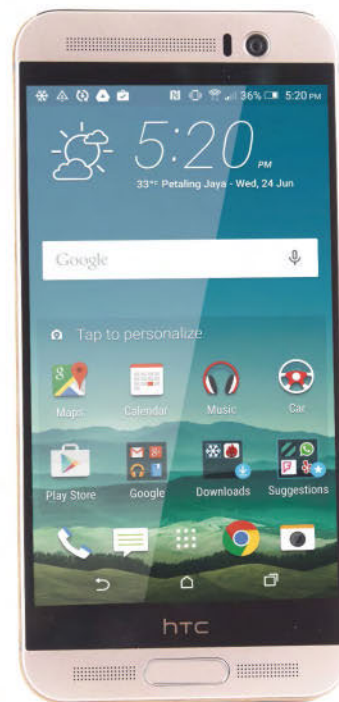
**Antutu:** 50,154 points  
**PCMark:** 3,936 points



The Duo camera makes an appearance in the M9+



That home button? It is a haptic-feedback touch sensitive button



# Not A Pretender

HTC's One M9+ makes for a compelling phone

By Nazrin Zain

Many had anticipated for HTC to announce its One M9 flagship smartphone here in Malaysia. While a launch did happen, it wasn't quite what the masses were expecting, as the Taiwanese smartphone makers announced its bigger brother instead, the HTC One M9+, featuring a slightly bigger screen, and some different internals.


Much like the previous iterations of the HTC One flagship smartphone, the One M9+ features an exceptionally slick and sturdy aluminium unibody chassis, which has been the hallmark of the One line of smartphones since it was first introduced. This time around, the One M9+ is slightly bigger thanks to the 5.2 inch display, which features a resolution of 2,560x1440 pixels.

The One M9+ is powered by a MediaTek MT6595 64-bit octo-core processor, alongside 3GBs of RAM and 16GBs of storage space, which you can expand via a microSD card. The phone runs Google's Android 5.0 Lollipop operating system with the new HTC Sense 7.0 UI overlay.

At the back, the One M9+ features a 20MP Duo camera, featuring uFocus and HTC Eye camera app which not only allows you to snap great photos without missing a beat, but also allows you to edit your photos with an extensive set

of options right on the phone itself. On top of that, you can also use the Zoe app which allows you to combine photos and videos that make for an excellent and very memorable collage.

Performance-wise, the HTC One M9 is a pretty good performer when it comes to day-to-day tasks and even the occasional gaming. The MediaTek processor is good enough to run content on the phone's 2K display with minimal lag. The One M9+ features a 2,840mAh battery that depending on your usage pattern, should be able to last you throughout the day, if not most of it.

Our only concern with the phone is that during extended usage with apps such as Google Maps, YouTube and such, the phone does have a tendency to get really warm. We have a feeling that this is due to the One M9+'s aluminium unibody, which conducts heat through the chassis, which is also something one needs to keep in mind. 

## CHIP CONCLUDE :

The HTC One M9+ is a phone that ticks many of the right boxes when it comes to design aesthetics and performance. It also comes with a suit of features that add great value to your smartphone user experience.



# An Interactive Mini PC


The Acer Revo One is a cute device that has tons of features to offer within its small chassis *By Nicolas See Tho*

Nowadays, many consumers are using miniPCs for a wide variety of tasks, and one of the more popular uses for them are to be streaming boxes for their living room. Hitching on that trend, Acer has arrived with their iteration of the living room mini PC with the chic Acer Revo One miniPC.

Inside the small packaging lies the cute and chic looking mini PC, which has oval curves and comes in a sleek white. Located on the top of the device is a SD card reader while the back of the device houses all the output and inputs for various ports such as USB, HDMI and Ethernet. This device comes bundled with its own wireless keyboard and mouse. The wireless keyboard and mouse however feels flimsy and of low quality but they are functional.

One of the unique features on the Revo One miniPC is the proprietary Revo One Suite which allows you to use your smartphone as a remote control, hence making it perfect for the living room, as you can control every aspect of the system via the touchscreen on your smart

device. Another worthy note, is that it's curvy design makes it a displayable item when placed in tandem with your indoor decorations.

Performance-wise, this miniPC can mostly handle daily tasks well, but at times we find that the lack of RAM makes multitasking nearly impossible as there are instances of lag between programs. Our benchmark tests also show only average results which leads us to conclude that this device is better of as a media player rather than a work machine. Its chassis can be easily opened to install and upgrade storage should you want to upgrade its storage space which by default is quite limited. 

## CHIP CONCLUDE :

When all is said and done, the Acer Revo one is a delightful device to have as an alternative source of living room entertainment, or if one needs a streaming box to watch your favourite internet media. It is also affordably priced which makes it all the more accessible.





## Acer Revo One


**Price** RM1,099  
**Contact** Acer Sales and Services Sdn.Bhd  
**Phone** 1 800 88 1288  
**Info** www.acer.com.my


### Specifications

**Operating System:** Windows 8.1  
**Processor:** Intel Celeron 2957U Dual Core 1.4GHz  
**Connectivity:** Bluetooth 4.0, Wi-Fi, LAN  
**Memory:** 2GB  
**Storage:** 60GB  
**Others:** Wireless keyboard and Mouse  
**Dimensions:** 155 x 106.5 x 106.5mm

### RATINGS

Performance	
Features	
Design	
Value	

 Small size  
Works well with indoor decoration

 Needs more RAM  
Included keyboard and mouse feels low grade



### BENCHMARK RESULTS

**PCMark Work:** 1,428 points  
**PCMark Home:** 1,829 points  
**PCMark Creative:** 1,920 points



The I/O selection is quite extensive



You can put up to two extra hard drives in the Revo



# MSI GS30 Shadow with GamingDock

**Price** RM10,999  
**Contact** MSI Malaysia Office  
**Phone** 1 300 22 1386  
**Info** my.msi.com

## Specifications

**Operating System:** Windows 8.1  
**Processor:** 4th Gen Intel Sharkbay i7-4870HQ  
**Graphics:** External NVIDIA GeForce GTX 980, 4GB GDDR5 graphics card, Intel Iris Pro (internal)  
**Memory:** 16GB  
**Storage:** 512GB SSD (M.2 SATA)  
**Others:** Bluetooth 4.0, HD webcam, LAN, 802.1ac Wi-Fi, SD card reader  
**Dimensions:** 320 x 227 x 19.8mm  
**Weight:** 1.2kg (with battery)

## RATINGS

### Performance



### Features



### Design



### Value



**+** Futureproof  
 High performance

**-** Noisy gaming dock  
 Can't use laptop display when docked  
 Price



## BENCHMARK RESULTS

**PCMark Work:** 4,150 points  
**PCMark Home:** 4,066 points  
**PCMark Creative:** 4,992 points  
**3DMark Fire Strike Extreme:** 5,805 points  
**3DMark Fire Strike:** 11,182 points



Docking the device to the gaming dock is easy as there is a lever that helps lock the laptop in place



# The Beast Lurks In The Shadows

When gamers are looking for a device that can handle the demands of gaming from the present to the future, the MSI GS30 Shadow with GamingDock is the answer *By Nicolas See Tho*

Have you ever bought a gaming laptop and wondered how nice it could be if you could change the graphics card in order to play next generation games in the years to come instead of reinvesting on another gaming laptop. The MSI GS30 Shadow is the solution to that problem as it comes with a gaming dock that houses a desktop grade graphics card allowing you to play any game on maximum resolution.

The first thing one notices as you open the packaging for this device is the sheer size comparison of the gaming dock compared to the laptop. The laptop itself comes with a 13.3-inch FHD display and a backlit illuminated keyboard. The laptop also has two USB 3.0 slots and a HDMI output for external monitors. Plugging in the laptop to the gaming dock is done easily as it is snapped shut with a locking device that holds it in place.

The gaming dock provides extra USB and display outputs as well as featuring a 2.1 sound system setup as well as power supply for your GPU. The main advantage of using the gaming dock prevails in multi-screen setups whereby you can fully utilise the raw power of your desktop grade

graphic card to its maximum potential. However, users should take note that when docking the laptop to the gaming dock, there is a certain procedure to follow in order to activate the external device.

Performance-wise, this laptop does daily task nicely on its own, and becomes a gaming beast after docking on to the gaming dock. Our benchmarks reveal that it has an amazing performance and it is able to run any game on maximum settings. The other benefit of a gaming dock is that you can easily upgrade your rig with newer cards thus saving you money and time in the long term. Users should note however, that when your laptop is docked, it won't be able to display any content on the laptop thus requiring you to have an external monitor.

## CHIP CONCLUDE :

In conclusion, the MSI GS30 Shadow with GamingDock is a worthy gaming device that would be able to handle the games of today and tomorrow, but at its hefty price tag, very few would be likely to own one except for the truly passionate.



# Olympus TG-860

Olympus knows their Tough cameras, and this model sits right up with them

By Sharil Abdul Rahman

What can we say about the touch series from Olympus? This line has been the mainstay for weatherproof compact camera since its first debut as part of the Olympus  $\mu$  line way back in 2006. After so many models, Olympus has refined their offering, and the TG-860 represents the company's latest take on the Tough model for the masses.

Supplementing the TG-4 model, the TG-860 is their more main stream model that still embodies the Tough spirit and soul. About the size of a normal compact camera, Olympus has nevertheless fitted the TG-860 with both a wide angle and zoom lens. The wide angle is set at 21mm – one of the widest ever in a consumer compact camera. Thanks to the Tough series unique lens arrangement, Olympus managed to fit a 5x zoom lens in the body, without any lens protrusion visible out of the camera.


16 megapixels is the sensor resolution for the TG-860, with ISO sensitivity going all the way to 6400. You also get sensor stabilisation in the camera, so shaky shots should be a thing of the past.

A 180-degree flip LCD gives the TG-860 great presence while shooting. Now,

you can selfie with an all-terrain camera anytime and anywhere. The three-inch screen is also large and bright enough for even the sunniest of days, thanks to the backlight boost feature.

Of course if you need control, the traditional PASM mode dial is included in the body, so you can control how your photos look like, in an easy-to-access manner.

A feature that the TG-860 has that trumps many other compact camera is its toughness. It can stand dives of up to 15 metres, drop from 2 metres high, and even freezing temps of up to -10 degrees Celsius. This is the best camera for snorkelling, as the camera also feature underwater white balance for the best image possible.

Of course if you need extra depth, Olympus has an optional deep water case, which gives it three times the depth at 45 metres. Best of all, you still get zoom capabilities! 

## CHIP CONCLUDE :

A great small and compact camera for you to slip into your swimming togs, or hang from your hiking backpack.




## Olympus TG-860


**Price** RM 1,159  
**Contact** Olympus Malaysia  
**Phone** (03) 6411 0000  
**Info** [www.olympusimage.com.my](http://www.olympusimage.com.my)

### Specifications

**Sensor:** 1/2.3"  
**Resolution:** 16 Megapixels  
**Zoom Range:** 5x (35mm equivalent 21 - 105mm)  
**Display:** 3"  
**Connectivity:** Wifi  
**Storage:** SD/SDHC/SDXC, 37MB built in  
**Dimensions:** 112.9mm x 64.1mm x 27.6mm  
**Weight:** 224 grams

### RATINGS

Performance	
Features	
Design	
Value	

 Durable  
Compact  
Comes with flip screen



 Boxy design



You even get GPS built in



The top controls are designed to be easily reachable - above and below water



# MSI Z97A Gaming 6

**Price** RM763  
**Contact** Media Forte (Malaysia) Sdn Bhd.,  
 JW Power Marketing Sdn Bhd.,  
 AMT PC Distributors Sdn Bhd  
**Phone** (03) 2287 1177, (03) 2148 1307,  
 (03) 3344 1124  
**Info** my.msi.com

## Specifications

**Slot:** Z97  
**CPU:** 4th/5th Generation Intel Core Processor  
**RAM Slots:** 4  
**RAM Type:** DDR3  
**Ports:** DVI x1, HDMI x1, VGA x1, DisplayPort x1, USB 3.0 x2, USB 2.0 x2, RJ-45 LAN x1, Audio Jacks x5  
**Others:** USB 3.1 Type-C x1  
**Size:** ATX

## RATINGS

### Performance



### Features



### Design



### Value



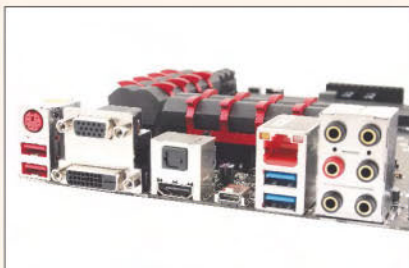
**+** Performance  
 USB 3.1 Type-C  
 support

**-** No devices with  
 Type-C connectors  
 yet



## BENCHMARK RESULTS

**PCMark 8 (Home):** 4,122 points  
**PCMark 8 (Creative):** 3,895 points  
**PCMark 8 (Work):** 4,326 points



The main feature of the Z97A Gaming 6 motherboard is the inclusion of the new Type-C USB 3.1 port



# First of Its Kind

MSI's latest Z97 offering is the first to feature a USB 3.1 Type C connector *By Nazrin Zain*

COMPUTEX has come and gone, and with it, we got to see a slew of new tech, especially from those who are running the PC components and peripherals market. MSI is one such company, as they unveil their latest line of Z97A motherboards featuring the brand new USB 3.1 standard. Right off the bat, the company's MSI Z97A Gaming 6 motherboard is the first in the market that we know of that features the USB Type-C connector.

The MSI Z97A Gaming 6 motherboard is one of the first motherboards from MSI that is certified to support Intel's new Broadwell processors. It still bears the same Z97 moniker due to the socket being the same as the Devil's Canyon processor, and this motherboard supports them both just the same.

Its four DDR3 DIMM slots supports up to 32GBs of memory in dual-channel configuration, with speeds of up to 3,300MHz when overclocked. As far as SATA ports go, it has six SATA III ports and one M.2 SATA port. It also has three PCIe 3.0 x16 ports, which is able to support both NVIDIA SLI and AMD CrossFireX multi-GPU configurations.

At the back, the Z97A Gaming 6 comes with a decent smattering of I/O ports, including four USB ports, a number of

video out ports including VGA, HDMI, DVI and DisplayPort, as well as the motherboard's number one main feature, a Type-C USB 3.1 port.

A Type-C port is a brand new port type announced by the USB Consortium, and alongside the USB 3.1's new standard, is capable of transfer speeds of up to a whopping 10Gb/s, which is equivalent to 1.0 GB/s. The other advantage the new Type-C connector has over the other ones is that users that have devices with Type-C connectors no longer have to worry about slotting in the cable the wrong way into the port as it is bi-directional.

Unfortunately however the Type-C connector is so new in the market that there is currently no devices out there at the moment that uses it. However, considering how fast these devices can propagate, we're fairly sure that there will be a few that is bound to be released in the near future. 🇲🇾

## CHIP CONCLUDE :

The MSI Z97A Gaming 6 is quite ahead of the curve with the introduction of the USB 3.1 Type-C connector. The motherboard itself performs very well, so if you're looking for a bit of future-proofing to go with your new PC.



# A Steamy Start

The ASUS ROG GR6 is one of the first gaming devices to come fully integrated with the steam client and this month, we take a look at how well it performs

By Nicolas See Tho

The debate between PC and consoles have been going on for ages, but why argue on either when you can merge both of them within a single device. The ASUS GR6 does just that, as it brings the ease of consoles combined with the power of desktop PCs.

The device comes in a console-like design which makes it slimmer and sleeker than your average gaming rigs. This desktop comes in the iconic red and black theme that is common on ROG. The front of the device has an iconic Steam shortcut button which allows you to pull up the Steam display on your HDTV or monitor for easy access to your game library, while on the back, it has a wide variety of connectivity options such as HDMI ports, USB 3.0/2.0 and DVI ports.

One of the GR6's most defining feature is its 2.5 litre chassis which makes it easy to transport and setup for LAN parties and such. It is also extremely quiet and cool as it comes with a dedicated cooling system with dual copper heat pipes and a large fan that directs heat from the CPU and

GPU for maximum cooling. This device also features GameFirst III which is a network optimization software for lagless gameplay. Additionally, this device also comes with easy slide off covers to easily access its 2.5-inch HDD/SSD storage for fast upgrades.

When it comes to gaming performance, the ASUS GR6 really brings it's A-game as during our benchmark tests, the rig has scored high marks in both PCMark 8 and 3DMark Fire Strike. It was also able to play games on maximum resolutions with little hassle, and with little to no lag at all. Even during heavy loads, the device produces barely any noise which makes it perfect for gamers who want to place this device at their living room. 🎮

## CHIP CONCLUDE :

All in all, The ASUS GR6 is a gaming desktop that is easy on the space but powerful enough to run today's games. So if you are a gamer who are looking at an easy to store gaming rig with Steam accessibility, you can try the ASUS GR6.

## ASUS ROG GR6

**Price** TBA  
**Contact** Build Technology Supply Sdn Bhd., ECS Astar Sdn Bhd  
**Phone** (03) 7955 3699, (03) 6286 8222  
**Info** [www.asus.com/my/](http://www.asus.com/my/)

### Specifications

**Operating System:** Windows 8.1  
**Processor:** Intel Core i5 5200 Processor  
**Graphics:** NVIDIA® GeForce GTX960M 2GB , Intel® HD Graphics 5500  
**Connectivity:** 4x USB 3.0, HDMI, Intel Ethernet LAN, Audio in/out, Wi-Fi, 2x USB 2.0  
**Memory:** 8GB  
**Storage:** 1TB  
**Others:** Kensington lock  
**Dimensions:** 6 x 24.5 x 23.8 cm  
**Weight:** 1.284 kg

### RATINGS

Performance	👍👍👍👍👍
Features	👍👍👍👍👍
Design	👍👍👍👍👍
<div> <div>+</div> <div>           Steam features makes game access easier            Space efficient         </div> </div> <div> <div>—</div> <div>None</div> </div>	

### BENCHMARK RESULTS

PCMark 8 Home:	3125 points
PCMark 8 Work:	3954 points
PCMark 8 Creative:	3568 points
3DMark Firestrike:	4071 points
3DMark Firestrike Extreme:	3012 points



The ASUS ROG GR6 comes with all the inputs and output a gamer needs such as USB 3.0 , HDMI, Ethernet and Audio in/out ports



# ASUS X99 Sabertooth USB 3.1

**Price** RM1,660  
**Contact** Build Technology Supply Sdn Bhd., Servex (Malaysia) Sdn. Bhd  
**Phone** (03) 7955 3699, (03) 8024 6688  
**Info** [www.asus.com/my/](http://www.asus.com/my/)

## Specifications

**Slot:** Socket 2011v3  
**CPU:** Intel X99  
**RAM Slots:** 8x DIMM Quad-Channel Memory  
**RAM Type:** DDR4  
**Ports:** USB 2.0 x4, USB 3.0 x4, USB 3.1 x2, eSATA x1  
**Others:** TUF Armor, OC Socket, Thermal Radar 2, Turbo LAN, TUF Audio  
**Size:** ATX  
**Weight:** 305 mm x 244 mm

## RATINGS

### Performance



### Features



### Design



### Value



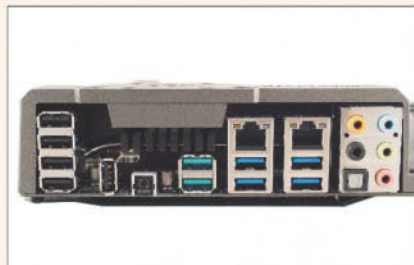
**+** Good performance  
 USB 3.1 works as advertised

**-** Getting the USB 3.1 to run at its full takes a bit of tweaking



## BENCHMARK RESULTS

**PCMark 8 (Home):** 3,860 points  
**PCMark 8 (Creative):** 3,609 points  
**PCMark 8 (Home):** 3,853 points  
**CrystalDiskMark (Read):** 750MB/s  
**CrystalDiskMark (Write):** 760MB/s



The ASUS X99 Sabertooth motherboard features a bucketload of I/O connectivity, with the most notable ones being the USB 3.1 Type-A ports



# USB 3.1 Cometh

ASUS X99 Sabertooth is the latest to get the new USB 3.1 treatment *By Nazrin Zain*

If you've been following us for some time now, it's doubtless that you'd have already read our review of ASUS' exceptional X99 Sabertooth motherboard review. The Taiwanese tech giants have recently refreshed a whole range of motherboards in its portfolio to include a brand new technology called USB 3.1.

As far as motherboard design is concerned, you'll still get the Thermal Armor on top of the motherboard itself, which aims to cover the components of the motherboard from being polluted by dust. Being an X99 motherboard, it features eight DDR4 DIMMs, supporting up to 64GBs of memory.


Storage junkies will also love to know that it has eight SATA III 6.0Gbps ports and an M.2 SATA SSD port as well. For hardcore gamers, the Sabertooth also supports NVIDIA's SLI and AMD's CrossFireX quad-GPU configuration.

At the back, the Sabertooth also features a huge choice of I/O ports, including four USB 2.0 ports, four USB 3.0 ports, an eSATA port, two RJ-45 LAN ports and the motherboard's main feature, the two USB 3.1 Type-A ports.

Whilst the main attraction with USB 3.1 is its blazing-fast 10Gbps projected transfer speeds, it's also made popular thanks to the new Type-C connector standard, which allows you to plug in its special

USB connector upside down or right side up. That being said, the USB 3.1 ports on offer on the Sabertooth are the traditional Type-A ones, as Type-C connectors aren't exactly properly commercialised just yet.

ASUS has however sent us a unit of its USB 3.1 enclosure that allows us to use the USB 3.1's ports to its full potential, however using it at its rated speed requires a bit of tweaking on the part of the user. After installing the USB 3.0/3.1 drivers, you will also have to install the ASUS UI Suite and the USB 3.1 Boost tool.

What the USB 3.1 Boost tool does is that it improves the transfer rate of the USB 3.1 port from around 500MB/s right up to around 800MB/s when the Turbo mode in the USB 3.1 Boost software is turned on. During our tests, the transfer speeds recorded by the USB 3.1 enclosure was recorded to be around the 750-800MB/s mark, which is quite close to the 10Gb/s mark set out by USB 3.1. 

## CHIP CONCLUDE :

USB 3.1 isn't quite widespread in usage just yet, but it is quite likely that several months down the line, we'll be seeing quite a number of devices using the standard pop up in stores. Definitely a motherboard to consider if you're looking to be in the cutting edge of USB technology.



## ASUS RT-AC3200 Tri- Band Router

**Price Info** RM1,399  
AV Future Link (KL) Sdn Bhd,  
ScanArt Data System (M) Sdn  
Bhd  
**Phone** (03) 7783 2010, (03) 7782 4700wd  
**Contact** www.asus.com.my

### Specifications

**Ports:** 1 x RJ45 for 10/100/1000/Gigabits BaseT for WAN, 4 x RJ45 for 10/100/1000/Gigabits BaseT for LAN, USB 2.0 x 1, USB 3.0 x 1  
**MIMO:** No  
**Frequency:** 2.4GHz/5GHz  
**Network Standard:** IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IPv4, IPv6  
**Encryption:** 64-bit WEP, 128-bit WEP, WPA2-PSK, WPA-PSK, WPA-Enterprise, WPA2-Enterprise, Radius with 802.1x, WPS support  
**Dimensions:** 290 x 188 x 58mm  
**Weight:** 1.01kg

# Triple Threat

ASUS has always provided powerful routers with blazing fast performances and with the RT-AC3200 Tri Band Router, they are keeping the trend going

By Nicolas See Tho

The Internet is now a necessity and keeping a constant and fast connection is more vital now than ever before. As such, ASUS has brought forth a router which can deliver on today's demands with the RT AC-3200 Tri Band Router.

Setting up this router is hassle-free as this model shares the same setup process as most ASUS routers which is to plug the router in and configure your settings from a browser. This router comes with six detachable antennas and it has all the usual ports located at the back panel which supports LAN, WAN and USB 2.0, while a single USB 3.0 port is located on the front.

This router comes with a variety of helpful features such as the AiProtection which helps protect the entire home network from threats like malware and viruses and Adaptive QoS which prioritizes the Internet bandwidth according to the type of traffic. It also features app analysis for real time monitoring of Internet activities of any connected client which is

a useful tool against internet connection abuse.

In terms of performance, this router provides blazing fast connection speeds as during our tests, we managed to get fast performances even through areas that are heavily walled off. This router is also perfect as a VPN or NAS server due to its fast connection speeds which can reach up to 236Mbps download speeds on an Unifi Internet connection which we used for testing. If there was a bone to pick with this router it would be the web interface which can take some time to register any changes made which can be time consuming when trying to configure advanced settings. 🚩

### CHIP CONCLUDE :

In conclusion, the ASUS RT-AC3200 Tri-Band Router is definitely a powerful device for those who need a router for their VPN or as a NAS server but it comes with a hefty price tag which may be prohibitive for some users

### RATINGS

#### Performance



#### Features



#### Design



#### Value



**+** Powerful performance  
Useful as a NAS/VPN server

**-** Price  
Laggy web interface



The back panel has all the necessary ports such as Ethernet, LAN, WAN and USB ports



# Kingston HyperX Savage

**Price** Starts from RM 324  
**Contact** Amble Action Sdn Bhd.,  
 Convergent Distribution(M) Sdn  
 Bhd., Ingram Micro Malaysia  
 Sdn Bhd  
**Phone** (03) 7665 3939, (03) 2144 1881,  
 (03) 7952 8188  
**Info** www.kingston.com

## Specifications

**Size:** 2.5 inch  
**Storage size:** 120GB, 240GB, 480GB, 960GB  
**Controller:** Phison S10  
**Connectivity:** SATA III 6.0Gbps  
**Dimensions:** 100mm x 69.9mm x 7.0 mm  
**Weight:** 96g

## RATINGS

### Performance



### Features



### Design



### Value



**+** Performance  
 Storage options  
 Extra features

**-** None



## BENCHMARK RESULTS

**CrystalDiskMark (Read):** 530MB/s  
**CrystalDiskMark (Write):** 470MB/s



The HyperX Savage comes in a variety of storage options, fitting a variety of needs



It also has a cool-looking red and silver chassis that would look really nice in a modded case



# Savage Speeds

Kingston's new HyperX Savage SSD offers amazing speeds for a variety of builds *By Nazrin Zain*

With all the hype behind new SSD standards such as PCIe and M.2 SATA SSD, it's easy to forget that the standard 3.5 inch SSD is still around. Kingston has been innovating SSD technology tirelessly, and after the awesome HyperX Predator PCIe SSD, they sent to us another amazing SSD in the form of the Kingston HyperX Savage.

The HyperX Savage is a super thin SSD, measuring at just 7mm in thickness, but comes in a cool-looking black and red chassis that feels pretty robust despite how thin it is. The model we received comes with 240GB of storage, but according to Kingston, it is also available in storage sizes of 120GB, 480GB and 960GB.

Kingston also ramps up the quality of the components used in the HyperX Savage by using a quad-core Phison S10 controller that allows the SSD to achieve transfer read and write speeds of up to 560 and 530MB/s respectively. This also shows in our tests as for the most part, we managed to reach these speeds without much effort.

A common issue amongst SSDs can sometimes be that they die out fairly quickly, sometimes one to two years into use. Kingston has rated the HyperX Savage to be able to last up to 306TB of write data, and on top of that, has given the SSD a three year warranty, similar to their other

products.

Another common problem when it comes to upgrading to an SSD is the fact that it takes time for them to not only transfer data from old drives to the new one, but also it's troublesome to find adapters to fit into any specific PC or notebook that you may have. Kingston solves all these woes by including a 3.5 inch bay, a spare SATA cable and a cloning software (Acronis True Image HD) which allows you to immediately copy the data from your old hard drive to the new SSD.

As we've mentioned, the HyperX Savage's thinness makes it an ideal SSD to be used in a variety of PC form factors, ranging from desktop PCs, mini PCs, HTPCs and even notebooks and laptops as well. If that's not enough, Kingston has also provided a USB 3.0 enclosure for the HyperX Savage that allows you to use it as an external hard drive.

## CHIP CONCLUDE :

The Kingston HyperX Savage is an excellent SSD to consider if you're looking to supercharge your computer's loading times. The fact that it comes in a variety of storage sizes and other extras mean that you can use it for a variety of PC and notebook builds as well.



# An Affordable Monitor

AOC never fails to provide consumers with affordable and efficient displays, and the AOC M2060SWD continues that tradition *By Nicolas See Tho*

Not everyone can afford premium quality displays, but when it comes to AOC monitors, they make it easily accessible for the consumers, and the same is true for the AOC M2060SWD.

After unpacking this monitor from the box, assembling the monitor is a one step process, as all you need to do is snap in the stand and you are ready to go. This device has DVI-D outputs, but surprisingly, it does not have a HDMI output which means you won't be getting those ultra-clear HD videos to portray their full beauty on this monitor, which is a let-down.

AOC monitors are designed with consumers in mind and as such, they are also made to be environmentally friendly, and as such it has features such as a Hg Free LED panel which means that this display unit does not contain any mercury thus eliminating any chance of poisonous waste. This monitor also comes with a bundled software which allows users to split the PC workspace into four

self-contained spaces for easier viewing. It also comes with a power timer to help you save energy by setting a timer that automatically turns off the monitor when you are not using the display after a period of time.

While this monitor does not have a HDMI output, watching movies at 720p gives off a satisfactory performance. Gaming on this display might be stretching things too far but when it comes to movies and videos, this monitor lives up to its purpose. Additionally, it also has a wide viewing angle which is perfect if you have a friend who wants to sit next to you to watch your videos. 🇲🇾

## CHIP CONCLUDE :

Overall, the AOC M2060SWD is a cheap and affordable monitor that is perfect for office or home use. If you are shopping around for a conventional monitor that goes easy on the environment, you should give this monitor a look.

## AOC M2060SWD

**Price** RM339  
**Contact** Adventure Multi Devices Sdn Bhd., Eternal Asia (M) Sdn Bhd  
**Phone** 03 7955 7788, 03 5569 2200  
**Info** www.aoc.com

### Specifications

**Display Size:** 19.5-inch IPS LED  
**Resolution:** 1920 x 1080  
**Connectivity:** DVI-D, D-Sub  
**Refresh Rate:**  
**Touch:** No  
**Viewing Angle:** 178 degrees

### RATINGS

<b>Performance</b>	👍👍👍👍👍
<b>Features</b>	👍👍👍👍👍
<b>Design</b>	👍👍👍👍👍
<b>Value</b>	👍👍👍👍👍

➕ Cheap  
 ➕ User Friendly

— No HDMI



The monitor is easy to setup with a snap in stand that makes installation a one step process



This monitor only has a DVI-D and D-Sub video output.



## Philips 272P4A

**Price** TBA  
**Contact** Ban Leong Technologies Sdn. Bhd  
**Phone** (03) 7958 0300  
**Info** www.philips.com.my

### Specifications

**Display Size:** 27 inch / 68.6 cm  
**Resolution:** 2560 x 1440 pixels (IPS Tech)  
**Connectivity:** HDMI x 2, DisplayPort x 1, DVI x 1, USB 3.0 x 3  
**Refresh Rate:** 60Hz  
**Touch:** No  
**Viewing Angle:** 178 degrees  
**Dimensions:** 639 x 580 x 273 mm (max height)  
**Weight:** 7.5 KG (with stand)

### RATINGS

#### Performance



#### Features



#### Design



**+** Great colour reproduction  
 Multiple modes built in  
 Designed for professionals



**-** Not designed for normal usage



Swing up to change the monitor from landscape mode to portrait mode



Multiple options available for inputs



# True Colour Reproduction

A monitor design specifically for the professionals you know *By Sharil Abdul Rahman*

Professionals are a picky bunch. Everything needs to be correct – location of their machine, their mouse, their keyboard and even their monitors. Of course it is not surprising, as it is their bread and butter, thus everything needs to be tuned perfectly so that they can generate the best output possible. Philips is a name that has been associated with professional monitors for quite some time now, and the 272P4A is a perfect match to video or image professionals anywhere.

Philips has managed to cram the IPS panel with 2560 x 1440 pixels, as well as making it reproduce 99% of the Adobe RGB colour space, and 100% of the sRGB colour space. What this means is that your images and videos will look as real as it can get, with perfect colour reproduction. All of these calibration is done in the factory so that perfect colour will be achieved right out of the box.

With a panel size of 27 inch, it is big enough for multiple windows to run simultaneously – and the 16:9 aspect ratio screen is great for playing back full HD videos full screen. Thanks to the IPS technology, you get 178 degrees of viewing angle all around. Philips has kindly included several image enhancing technologies in the monitor – among which

is PerfectKolor, FlickerFree, MultiView, Smart Image picture enhancement, as well as SmartContrast. All of which when used in conjunction creates the best possible image output for professionals.

For ergonomic purposes, the 272P4A comes with a stand that tilts, pivots and swivel. You can actually turn the screen 90 degrees, and turn the monitor into portrait mode. Not many monitors out there have this feature installed. Connectivity for this monitor is plentiful – you get three USB 3.0 ports via a built-in hub, two HDMI ports, a DisplayPort and a DVI port, Audio in/out and for video conferencing, a built-in webcam and speakers.

An accessory that comes with the monitor is a monitor hood. This accessory will block out unwanted light – important during video post processing and/or video playback on site.

### CHIP CONCLUDE :

If you are a professional, you should consider getting one as it gives a great colour reproduction, which is critical for image manipulation (photoshop) as well as video colour grading. The fact that it comes with a monitor hood is gravy.



# No Need To Break Your Bank

ASUS STRIX R7 370 brings users an affordable graphics solution *By Nazrin Zain*

AMD has been a bit quiet on the GPU front ever since the first launch of their R9 and R7 GPU lineup, with the only notable announcement since then being the announcement of the monstrous R9 295X2. It's been well over a year since, and at this year's Electronic Entertainment Expo, the company announced a slew of new GPU variants, which include the R9 Fury X, and this one, the R7 370.


This ASUS variant of the R7 370 features the company's new fan favourite STRIX custom cooler, which actually does not spin when idling. At its core is a Pitcairn Pro graphics processor, which is actually also used in an older AMD GPU in the form of the HD7850. The ASUS STRIX variant of the 370 also comes with 4GBs of GDDR5 memory, which is a pretty notable upgrade.

At the back, the R7 370 comes with two DVI ports, one DisplayPort and one HDMI port. Powering the graphics card is a single 6-pin PCIe plug, with the TDP of the R7 370 being about 110W. If you're looking to build a low-powered PC for HTPC that's capable of a bit of gaming, this is definitely one of the cards to look out for.

ASUS' R7 370 features the company's STRIX air cooler, and what's special about this particular cooler is that until the GPU hits a certain temperature threshold, the fans will not spin, reducing power

consumption and noise. During our tests, we find that the only times the fan does spin is when we ran the 3DMark benchmark on it, and when games are run.

Even as the fans run during our game tests, the card runs relatively cool and silently, as one could expect, which is superb. How does the card fare in our game tests you ask? We tried a number of games, including Metal Gear Solid V, Final Fantasy XIV and The Witcher 3. Both MGSV:GZ and FFXIV ran as smoothly as can be hoped at 1080p with hardly any noticeable lag, and with The Witcher 3, we simply had to tune some graphical settings to medium and high, and it's perfectly playable at 720p.

This is likely due to the fact that unlike many of the other R7 370 cards, including the reference design model, the ASUS STRIX R7 370 features 4GBs of GDDR5 memory as opposed to just 2GBs in the others, allowing more graphics data to push through it. 

## CHIP CONCLUDE :

Based on the price of the reference model, the ASUS STRIX R7 370 is an excellent GPU if you're on a bit of a tight budget, but still need a GPU that can play many of the latest games without compromising too much in terms of graphical fidelity.

## ASUS STRIX R7 370

**Price** TBA  
**Contact** Build Technology Supply Sdn Bhd., Servex (Malaysia) Sdn. Bhd  
**Phone** (03) 7955 3699, (03) 8024 6688  
**Info** [www.asus.com/my/](http://www.asus.com/my/)

### Specifications

**GPU:** AMD Radeon R7 370  
**Memory:** 4GB GDDR5  
**Ports:** DVI x2, HDMI x1, DisplayPort x1  
**Slot Size:** Double  
**Dimensions:** 214 mm x 125 mm x42 mm

### RATINGS

<b>Performance</b>	
<b>Features</b>	
<b>Design</b>	
 Good performance Runs cool	
 None	

### BENCHMARK RESULTS

**Fire Strike:** 4291 points  
**Fire Strike Extreme:** 2,187 points  
**Unigine Heaven:** 31FPS



The R7 370 has quite the selection of video output, including DVI, HDMI and DisplayPort



The STRIX Cooler makes a return, featuring its 0db fanless operation during idle periods



**YOUR  
FAVOURITE I.T.  
&  
TECHNOLOGY  
MAGAZINE IS  
ALREADY  
AVAILABLE  
DIGITALLY!**



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CHANGE IS COMING

# FANTASTIC 4

FROM THE STUDIO THAT BROUGHT YOU  
**X-MEN: DAYS OF FUTURE PAST**  
IN CINEMAS 6 AUGUST

**MARVEL**

## FANTASTIC FOUR CONTEST

### Terms & Conditions:

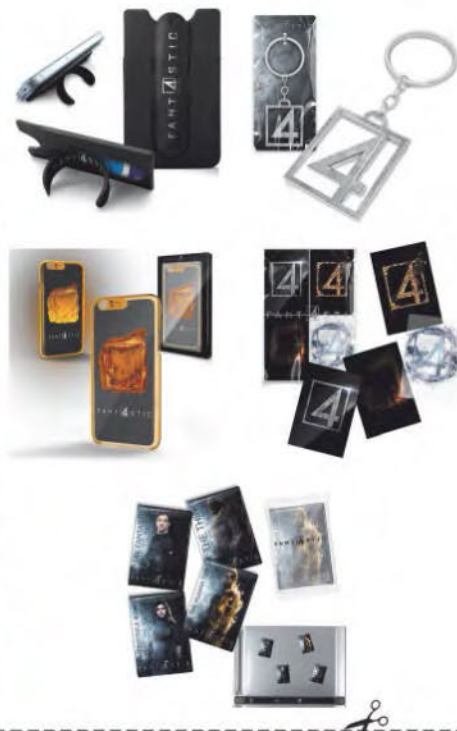
1. Contest open to all Malaysians except the employees of Online Dynamics (M) Sdn Bhd & Twentieth Century Fox Film (Malaysia) Sdn Bhd.
2. Only original entry form is accepted.
3. The judges decision is final and no correspondence will be entertained.

4. Prizes are not transferable or redeemable for cash.
5. Closing Date: **31<sup>st</sup> July 2015**
6. Send your entries to:  
**Online Dynamics (M) Sdn Bhd/  
FANTASTIC FOUR MOVIE Contest  
A-5-07, Block A, Neo Damansara,  
Bandar Damansara Perdana, Jalan PJU 8/1  
47820 Petaling Jaya, Selangor Darul Ehsan.**

## FANTASTIC FOUR CONTEST

**1st Prize**  
Light-Up Phone Case  
Card Phone Wallet with Stand  
Keychain  
Magnet  
Stickers  
Double Passes x 4

**2nd Prize**  
Card Phone Wallet with Stand  
Keychain  
Magnet  
Stickers  
Double Passes x 4



## FANTASTIC FOUR CHP CONTEST

Questions:

- 1) Name your favorite character actor in "FANTASTIC FOUR"? Why?

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Name: \_\_\_\_\_

I/C No: \_\_\_\_\_

Address: \_\_\_\_\_

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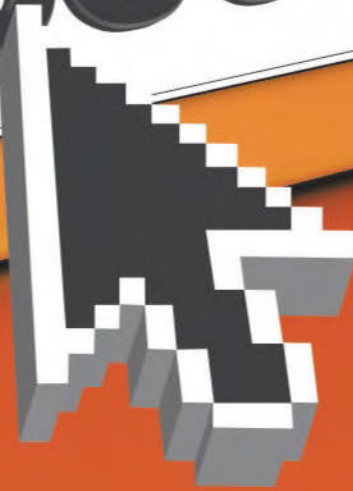
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# GEEKMOMMY

## Installing a Child Car Seat Should Be Your First Safety Measure



*Installing a child seat should be the top priority for every parents, especially for the first ride home for a newborn baby after being discharged from the hospital. Prince William reminded the world to do so when he carried Prince George out in a baby carrier and proceeded to buckle up the baby carrier in his car seat*

By GeekMommy

### Why a child car seat?

The Association of Registered Childcare Providers Malaysia (ARCPM) describes the child seat as fulfilling the five following functions:

1. Restraining a child through their strongest body parts
2. Spreading the force of an accident over a wider area
3. Slowing down the impact time to allow them to "ride down" an impact
4. Protecting the head and spinal cord
5. Preventing ejection or ricocheting around the interior of a car

All this leads to a child's safety when in an accident. And the best way, is to place the child car seat rear-facing as long as possible. Do not place your child on the passenger seat facing the dual front Airbags.



### Below are some tips on choosing the right child car seat

1. Read your vehicle owner's manual before shopping for a child car seat to identify where the car seat should be installed.



Most of the newer cars rear seats comes equipped with a set of top and lower anchors that ensures rigid support and hold for child seats. Look for the "Isofix" label between the base and the back of your car seats or a round

button.

2. Choose the correct seat for your child's age, weight and height

- Rear-facing seats – this is the safest position to place your newborn, infant and child and it is highly recommended for them to ride in a rear-facing seat as long as possible. The best gauge to know when your child has outgrown the rear-facing seat is when their head is within 1 inch of the top of the seat.
- Forward-facing seats – your child must be at least two years old or have reached the maximum height or weight limit of the child car seat.
- Booster Seats – children over 18 Kg or at least 4 years old could be transferred to a booster seat or if they have grown too tall for their car seat. You would know this when htheir shoulders are higher than the top set of harness strap slot in the car seat's back

3. Measure how much room you have at the back seat as this would determine the size of the child car seat's base.
4. Choose a seat with two-piece retainer clips as it's proven to be more difficult for a child to unbuckle.
5. Easy to clean seat material – chose a smooth fabric that can be wiped or which can be removed and washed. Choose a breathable material for our humid Malaysian weather too. 📌

*Geek Mommy tries to makes sense of the tech world for the less techie while managing a household, a job and keeping a toddler busy. More of her musings at <http://geekmommy.info/>*



## PLAY

## GAME REVIEW

## E3 Comes Alive Yet Again

By Team CHIP

Apart from COMPUTEX, June is also when the Electronic Entertainment Expo, also known as E3, is held. Game developers and console makers from all over the world converge into Los Angeles, and open up their warchest of announcements for new game titles. Be it for the XBOX One, Sony PS4, Nintendo handhelds or the everlasting PC, there are games for just about everybody. While CHIP did not get a chance to go to E3 this year, we did stay up to catch all of the announcement events, and here are some of the jewels that we picked up.



## Bethesda

This year at E3, Bethesda made a surprise visit with their own on stage event, with highly anticipated titles that is making fan go impatient for the coming year. Starting it off is the launch of the next sequel in the Fallout series, Fallout 4 which buzzed the internet for the whole E3 week. This time, the game is set in Boston, Massachusetts whereby players begin the game before the world-ending bombs were launched. The vault dweller then reemerge after 200 years of hibernation within Vault 111. New game mechanics were introduced as well, such as new weapon crafting systems, and building crafting. The game is due for release in November 2015.



Next, they showed a short demo of the fast-paced remake of Doom, full for gore and blood, and is targetting for a 2016 release date. Following that is another big announcement from Bethesda is Dishonoured 2. The most obvious changes is the inclusion of a female character that players can choose, and the two different characters each

have their own unique powers and abilities. Other games that followed sees a new expansion for the Elder Scrolls Online game, as well as a new game platform which reminds you of Hearthstone called Elder Scrolls Legends, which is a free to play tablet game, announced alongside with their new MOBA Battlecry and mobile casual game Fallout Shelters.

## Microsoft

When it comes to massive announcements, Microsoft is never one to hold back.



Starting off with a detailed look at Halo 5 :Guardians,

the conference showcased a campaign gameplay as well as a new mode called Warzone which is a new multiplayer experience which involves players and AI bots. Microsoft also showed a trailer for a new project called Recore, which is being produced by Keiji Inafune, the creator of Metroid Prime. This game gives of an "I am Legend" vibe with the addition of mecha elements into its game style.



This year would also see another Forza racing game released as Forza Motorsport 6 proceeded by its partners which highlighted some big titles such as Dark Souls 3, The Division, and Rainbow Six Siege. Microsoft has also planned

some nostalgic returns with the 30th Anniversary Rare Replay collection which is an all-inclusive compilation which features some of the best rare games from the past such as Banjo Kazooie, Battletoads, Perfect Dark, and more. Microsoft then closed of its announcements with the Gears of War 4 demo and the Ultimate Edition re-release announcement. as well as Fable Legends.





## Nintendo

Nintendo as per usual held a digital version of their announcement, where they go over the handheld console scene with new games reveals. This year, they started off with a new Zelda game and the new Metroid Prime Federation Force - both



for the Nintendo 3DS. The Nintendo conference had also displayed new gameplay from their latest Star Fox Zero game, as well as a new Paper Mario and Luigi crossover game. Other announcements include the reveal of new Amiibo figurines which works with games to give players special add-ons. Also presented at the conference was talk of Nintendo's partnership with Skylanders as well as details on the Super Mario Maker. Some of the other big titles launched by Nintendo are Animal Crossing : Happy Home Designer, Animal Crossing : Amiibo Festival and Mario Tennis: Ultra Smash.



## Sony

Sony played the nostalgia card this year as they announced several remakes that is coming to their console, the PS4.

Guerilla Games, the studio behind the Sony exclusive Killzone franchise went on stage to announce a new IP for the PlayStation 4 titled Horizon: Zero Dawn. From what can be gleamed from the in-game demo footage, it's set in a post-apocalyptic world where mankind live in nomadic groups, and large mechanical creatures roam the land. The lead character carries a multi-mode bow as a means of defending herself, and to ensnare the creatures.

Molecule Media, the brains of PlayStation cult classic Little Big Planet also announced a new IP at E3 this year in the form of Dreams, a scenario creation game which, if we understood it correctly, allows you to create characters and scenes, and take it online, allowing other people to experience your creations, much akin to a dream. It all sounds quite trippy, but knowing Media Molecule's pedigree in creating fun, sandbox games such as this, we're looking forward to learning more.

Nathan Drake makes a return to the console for what appears to be his last game, as Naughty Dog shows off Uncharted 4: A Thief's End. The title has always been one of the most visually-appealing games made, but Naughty Dog outdid themselves yet again as it appears that gamers will get to travel to more exotic locales and do all sorts of cool things. Definitely one to look forward to.

As if the previous titles mentioned weren't drool-worthy enough, they also announced three titles that have been asked for the most, as they announced a Final Fantasy 7 remake, The Last Guardian and Shenmue 3 with each making an appearance on-stage to massive applause and people screaming in sheer delight.

The Final Fantasy 7 remake and The Last Guardian were first teased when the PlayStation 3 first came out, and it's taken Sony this long to finally making good on their promise to have these games out on their console. Shenmue 3 meanwhile, a cult-classic from way back in its days in the Sega Dreamcast era is a Kickstarter project by Yu Suzuki, who is the creator of the title. He went on stage to ask attendees to kickstart the Shenmue 3 project for US\$3 million, which was achieved on the day that the game was announced itself.



## EA

When they really try, EA can actually develop and publish games that are actually really amazing. Their announcements at E3 this year seems to have fixed some of the misgivings many gamers have about them for the past few years, though how far that is going to be the case will really depend on the games when they actually launch.



# PLAY

As always, sports games took centre stage at EA's E3 announcement event. FIFA 2016 in particular received a massive boost in the form of an appearance by Brazilian football legend Pele, who waxed lyrical about the beautiful game, and the FIFA game franchise as well. Madden NFL 2016 is back, now with a Fantasy Football mode, whilst NBA 2016 has a new feature called GameFaceHD which makes a 3D render of your face, allowing you to be your own All Star player in-game.

You would think after the end of Mass Effect 3, we'd be seeing the last of the Bioware intergalactic RPG; however EA thinks there's life in it still, as they unveiled Mass Effect Andromeda. Not much is known about the game other than it's set sometime after the heroics of Commander Shepard.



Did you like Mirror's Edge? Of course you do! Everyone's favourite free-running/parkour simulator is back with a vengeance. This super-stylised game with its penchant for the occasional amazing scenery and cool moves is set to make a return sometime next year, now with more drama, and a villain whose visage looks similar to that of EA's own CEO, Andrew Wilson.

Of course, we would be remiss to not include one of the biggest announcements of the night: Star Wars Battlefront. It is basically a Star Wars' dream game come true as you can take down AT-STs in groups, fly in TIE-fighters and even fight as a Jedi.

## Ubisoft

Still recovering from the disasters that were Assassin's Creed Unity and Watch Dogs, it seems that Ubisoft is going to find it difficult to find a solid footing at a game show as big as E3, but it appears that they are moving full steam ahead with a lot of brand new announcements that gamers can look forward to.

First up is For Honor, a first-person hack-em-all multiplayer game based in medieval times. In this game, you get to choose to be either a Knight (Legion), Viking (Warborn) or Samurai (Chosen) and fight one another in duels to the death.


Two games made a surprise return to the Ubisoft lineup, with the first one being Ghost Recon Wildlands. Players will play as one in a squad of four elite soldiers charged with infiltrating Bolivia to take down the Santa Blanca drug cartel. The world in Ghost Recon Wildlands is massive, giving players an opportunity to not only change their strategy based on environmental conditions, but also affect the environment based on decisions they make.

The second game that made a big return is none other than Rainbow Six Siege. The Rainbow Six title has always been about executing tactical maneuvers to outsmart your opponents in a variety of war-like scenarios. Rainbow Six Siege doesn't seem to disappoint here as even the enemy AI appears to be crafty enough to outsmart their human counterparts. Definitely one to look forward to if you're a big Rainbow Six fan.

The Division was first teased alongside Watch Dogs, and appears to be set in some dystopian near-future where reliance on technology is almost a given. The game still appears to focus a lot on the multiplayer element with some story going on. Here's hoping that it will fare better than Watch Dogs.



More city-building shenanigans ensue as Blue Byte unveiled ANNO 2205, a continuation in the company's long-running franchise, now with a new feature that allows players to travel to the moon. There, they can mine and harvest new resources that will aid in building even bigger and better cities, both on the moon and back on Earth.

Ubisoft is also looking to right a wrong with its Assassin's Creed franchise, by announcing Assassin's Creed Syndicate, now featuring a pair of siblings in Jacob and Evie Frye as the two protagonists in this game that appears to be set in Victorian England. There isn't much shown here besides the fact that Evie gets a bigger chunk of screen time versus his brother, which is probably a subtle apology for their lack of tact in handling the "no female assassins" issue in Assassin's Creed Unity. 



## GAME REVIEW

# The Hunt Continues

By Nicolas See Tho



*Geralt will meet many foes, and you can deal with them in many ways which all involve violence*

One of the most highly anticipated game of the year is here, and this month, we decided to give it a go and see what all the hype is about. The game boasts at least 20 times more traversable grounds than Skyrim, and that is saying a lot. But first, let's start from the beginning.

At first looks, the game is beautiful and the level of graphics that this game offers is astounding - from the scenery to the NPC garments, all the way down to the different creatures and monsters that roam the land of Witcher 3. The weather effects are also part of the full blown Witcher experience as the wind blows, the fields change and go with

the wind, or as you walk through the rain, you can see how the land changes under its wet visage. However with all its beauty, there are certain visual features that require your gaming rig to be of adequate requirements such as NVIDIA Hairworks. Without the right graphics card, you will

find that the ultra-setting of this game uses up a lot of resources thus dropping the framerate drastically.

As we get down to the gameplay, one thing becomes apparent as you slash and hack your way through various creatures - the linear fighting style of your character. The main character Geralt can use three modes of attack, which are swinging the sword in light medium or hard swings which changes the amount of damage one can do to their opponents. Besides that, he can also cast certain magical runes which affect how you encounter different opponents. While entertaining at first,

this gets repetitive real quickly and you see very little dynamics after getting through several missions.

But if there is one thing that this game truly marvels at, it would be the sheer amount of things one can do within the game as even the side quests are stories that affect your entire storyline. For example, if you were to kill a bandit lord in one area, your entire story might change because you were supposed to deal with the bandit lord for information thus changing the direction of your story.

All in all, Witcher 3 is an immensely fun game to play, and with the amount of things to do within the game, one would not find themselves bored for months on end. Keep in mind however, that for the full experience of the game, one should ensure that they have the appropriate rig in order to fully enjoy the game to its maximum potential.

ACTION RPG, OPEN WORLD

## Witcher 3 : Wild Hunt

**DEVELOPER** CD Projekt RED

**PRICE** RM12.00

**INFO** [www.thewitcher.com](http://www.thewitcher.com)

### SYSTEM REQUIREMENTS

**PLATFORM** : PC, Playstation 4, Xbox One

### RATINGS

**Gameplay**

**Graphics**

**Sound**

**Replayability**

Huge world to traverse, Beautiful graphics, Tons of content

Limited fighting potential, Certain graphic features require a powerful rig



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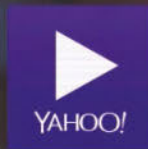
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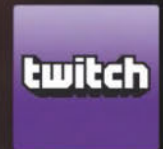
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# Streaming With The Plex Media Server

*This free media server manages it all, as they provide web enabled devices with images, videos and music* By Markus Hermannsdorfer

Smartphones, Laptops, and Smart TVs are all devices that can give back images and music. Once you have saved multimedia files centrally on a computer or network hard disk, Plex Media Server will help you stream your network to other devices. For reception and rendition, your setup would only require a client software. Alternatively, you could also connect the server over the browser. The premium Plex app allows you to be equipped with a remote control, however, should you choose to not bear any costs, feel free to try any one of the free alternatives.

## Expandable Plug-ins

Should you find Plex's range of functions to be inadequate, you will be able to find plenty of expansions for the media server on <https://github.com/plexinc-plugins>. Mostly, it refers to display modules for the media centers of American TV stations such as SyFy or CNN.

## How it's done

### 1 Setup the Server Software

Install the Plex Media Server on your computer. By doing that, you should have provided all other devices within your network with films, images and music. If you wish to install Plex on a NAS device, an Apple Mac, or a Linux computer, you should

instead visit <https://plex.tv> and from there, download the media server version based on the operating system suitable for you.

### 2 Start the Server

Click on Launch to close the setup, then Plex will open a webpage on which you can register, and alternately, should you not wish to create an account, just click on the link that says Do not wish to create an account. For those who choose to do so, agree to the terms of use by clicking Agree, which will then shortly take you to the top of the media server.

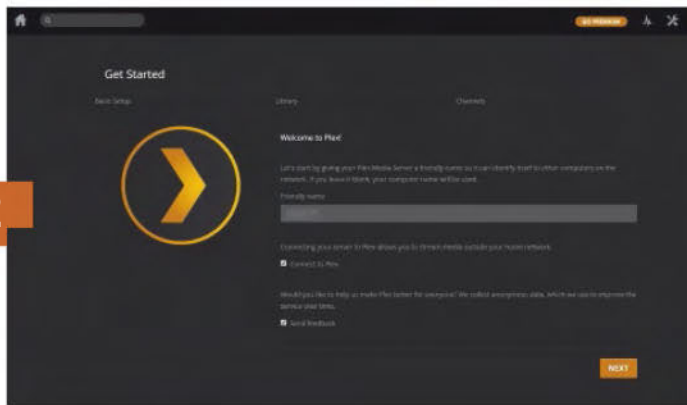
### 3 Setup the Media Centre

You should create a random but meaningful name for your server, in order for you to safely identify it within your network, thus you can even add the name of your computer. Under Add media centre, you would be able to mark the folder that contains all your images, films and musical pieces.

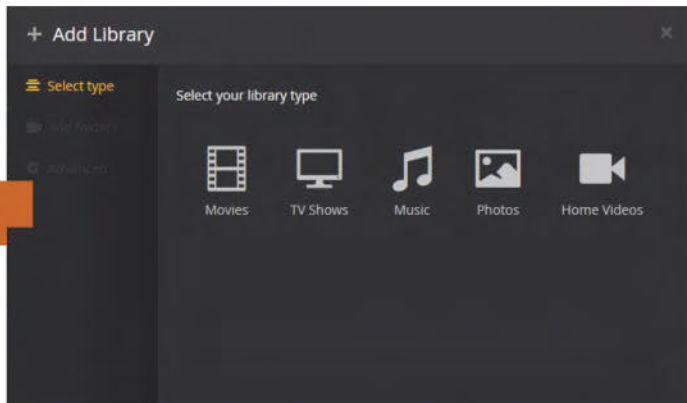
### 4 Add Streaming Channels

For those of you who wish to stream the contents of Soundcloud, Vimeo and other web services, click on each symbol of the desired service in order to include it in your list of sources then the server will finally be ready for consumption.

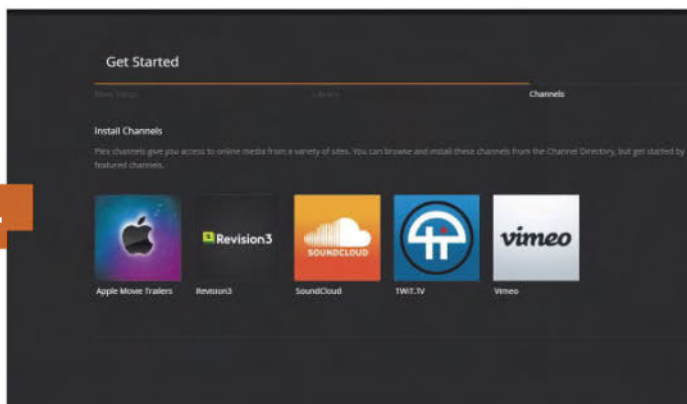
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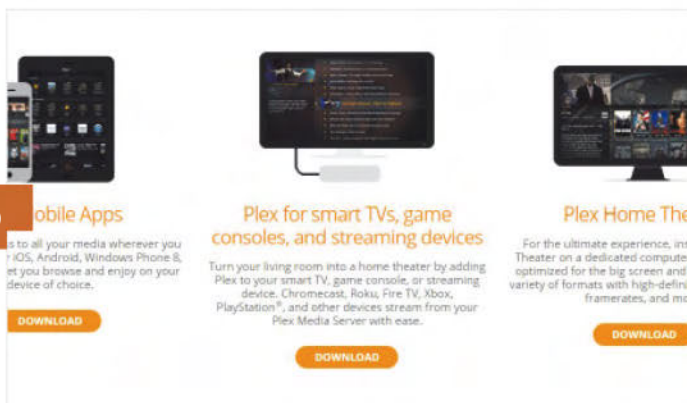
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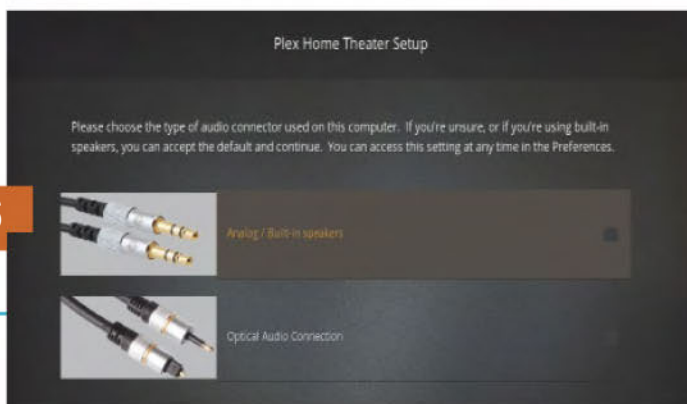
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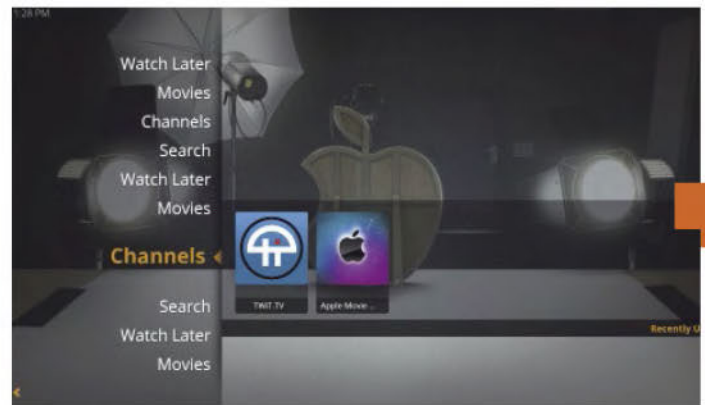
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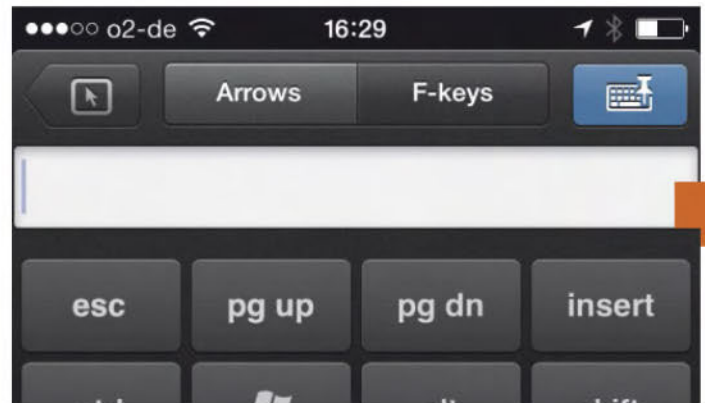
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7



8



## 5 Installing Client Software

Download the client software from <https://plex.tv/downloads> in order to receive the terminal. There would then be a choice of apps for Android, iOS, Windows Phone 8 and Windows 8, a Home theatre software and applications for Smart TVs and game consoles. Do keep in mind that the Home Theater software is free of charge.

## 6 Launch the Client

After receiving the host, select Start: Plex for Home theater to start the client software and confirm the Windows Firewall warning. As the software for remotes has been implemented, the mouse pointer will disappear. You can control the programs using the arrow keys on the keyboard, Enter Key, and ESC key or with a remote, which are often part and parcel with computers. Now a wizard will request for audio connection whereby you can confirm by clicking Next. You would then need the current displayed code if you wish to log on to the server via a random device from a browser. This can be done by creating the free account as mentioned earlier.

## 7 Configure the Program Individually

In a home network, the client software connects independently to the server. Under Settings, you can change the language settings and tune the audio and video playback. Should you films stutter, you should increase the size of the buffer memory to about 20 percent under Quality.

## 8 Free of Charge Remote Alternatives

If you do not wish to spend money for the official Plex remote control app, Install Hippolite (iOS) or RemoteDroid (Android) on your smartphone. Both programs are free and simulates the mouse and keyboard on mobile devices. 🇮🇳



# Tips & Tricks

JULY 2015

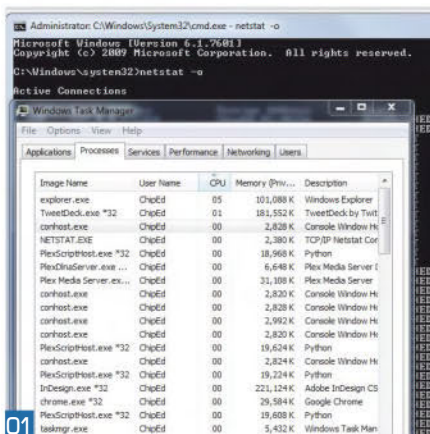
## WINDOWS

01

## WINDOWS

**Detect and parry off hacker attacks with standard tools and applications**

If you wish to check your system for prevailing hacker attacks, you can track any potential risks with the help of Windows. The following indications point to an attack - you receive virus alerts, even though you have not opened, started or recently downloaded any file or application. Or an antivirus program which you are unfamiliar with, start springing up with notifications. In this situation, using the Tool Remove Fake Antivirus is helpful. If the CPU utilisation is still abnormally high despite shutting down all programs, something fishy is definitely going on. Furthermore, surprising computer activities like automatic opening of a website make it all the fishier; or you learn, e.g. from friends, that spam mails have been sent to the contacts



**01** The PID number helps to find the process listed by netstat in Task manager

in your address book with your return address.

Every hacker attack on a Windows computer needs a process and an internet connection. You find the process by opening the command prompt and type in "netstat-o". Afterwards, the operating system lists out all processes, which is connected to the internet. If any of these processes appears fishy, note down the process ID - which you will find in the "PID" column. Open Task Manager and click to the "Details" or "Processes" window, depending on the Windows version. Type in the the PID under "Select column" which is under "View". Afterwards, you can identify the process and right-click to end it.

However, before ending the process, you should block its internet connection. This can be achieved through the Windows Firewall, where you create a new "outbound rule" for the process. If you do not know how this is done, then just simply read the next tip.

If the hacker does not get on track, then find him with a free professional tool. Install and start Process Explorer. You will now see processes marked with blue, pink and violet. You must pay special attention to the violet processes; they could possibly refer to a malicious code.

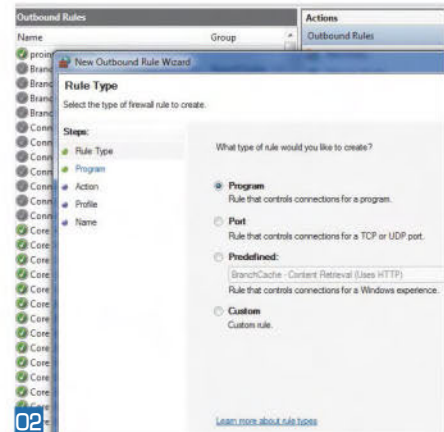
Right-click on the suspicious process and select the option "Check VirusTotal". The check is uploaded on an online analysis site and verified by about 50 antivirus programs. If several of these programs raise alarms, then it is another indication of hacker activities. In this case, you

have successfully detected a definite malicious process. Right-click on it in Process Explorer and select the option "Suspend" in the context menu. Now, the tool will try to stop the process and find all the associated data files.

02

## WINDOWS

**Block programs with internet connection specifically in Firewall**



**02** To block a specific program via Firewall, a rule for outgoing data communication must be defined

You can block selected applications in Windows Firewall. This way you prevent it connecting to the internet without your knowledge. Type "wf.msc" in the search field of the start menu, in order to obtain the configuration menu of Firewall. Windows 8 users can type the command directly on the Start screen. Now click on "Outbound rules" to the left of the window. After that, select the field "New Rule" and "Program" as rule type. Then click on "Next". Under "Browse", enter the program path that you wish to block. Make sure that "Block the connection" is selected. Once again click on "Next". Now you can specify when the program should be blocked. In case of doubt, select all options. Specify the name for the rule. End the process by clicking on "Finish".

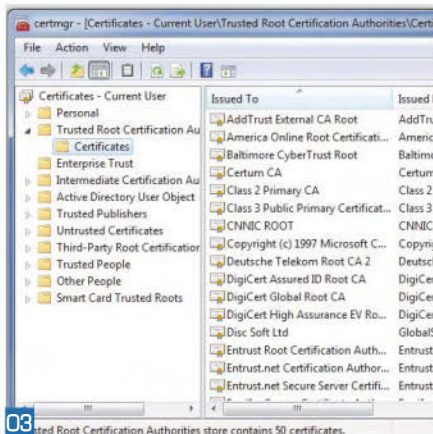
**Note:** This instruction functions in all windows versions from Vista onwards. If you wish to block the program under the old Windows XP, the best option would be to use a software like ZoneAlarm Free Antivirus + Firewall or

Comodo Internet Security.

03

## WINDOWS

**Eliminate unsafe or unwanted certificates from the computer**



The certificate manager will give you a list of all certificate files saved on your computer

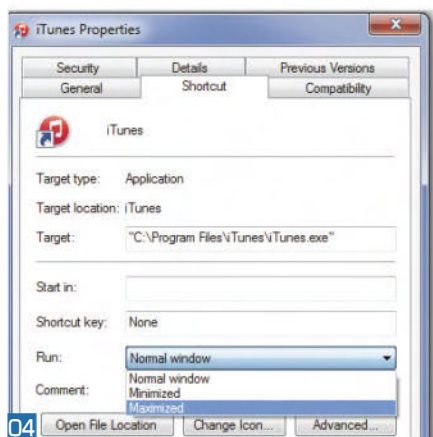
If a certificate is declared unsafe or it is undesirable on your PC, it must be deleted. Press the key sequence [Windows]+[R], so that the "Run" command opens. Type "certmgr.msc" and confirm with "OK". The certificate manager opens.

Select the desired category on the left and the suitable certificate on the right. Right-click and select the option "Delete". As soon as the process is confirmed, the certificate is eliminated and declared as void.

04

## WINDOWS

**This way you always start the selected programs in full-screen mode**



The "Shortcut" tab helps to check whether an application will be started in window-screen full-screen mode

Windows normally starts its applications in the manner in which they were closed. Instead, you can specify that a program should always appear in full-screen mode when launched. In order to do this, right-click on it in the start menu and select "Properties" in the context menu. Now switch to the tab "Shortcut" and mark "Maximized" in the "Run" list. At the end, confirm your choice with "Apply" or "OK".

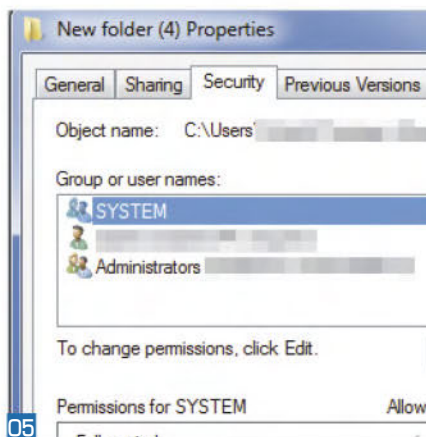
05

## WINDOWS

**Remove the write protection for data files**

In case you are unable to remove the write protection from a data file in Windows, this means you do not have the necessary rights. To resolve this, firstly, try to modify the file settings. Right-click on a folder and then select "Properties". In the "General" tab, remove the marking before "Read only". Now, if you confirm the new setting by clicking twice on "OK" and afterwards recall the settings, the option is enabled. According to Microsoft, this is no bug, but a feature. Because in this way, you do not remove the write protection for the folder, but instead only for the data files contained in it. Although the folder itself stays read-only from outside, it can be edited and even deleted.

In case you are unable to remove the protection in this manner, right-click on the folder or the file and once again select "Properties". This time, switch to "Security" and click on



To remove the write protection, you must first assign more rights

"Advanced". Open "Owner" and click on "Edit". Choose your account and subsequently click on "Apply".

Finally, close all windows with "OK" and open "Properties" once again. Switch to the "Security" tab and click below on "Edit" under "Group or user names". Select your account and enable the "Full control" option. Close the window by clicking on "OK". Now you will have all the necessary rights needed for controlling the write protection.

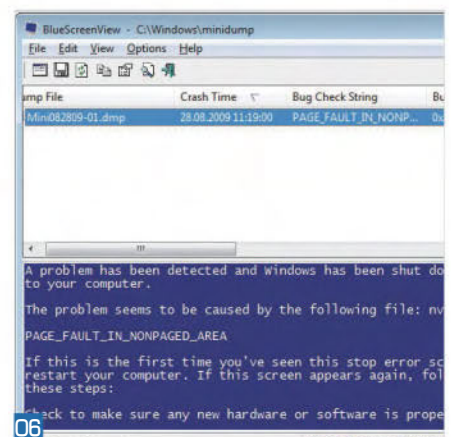
06

## WINDOWS

**Detect the cause of a system crash (Blue Screen of Death)**

If your system crashes and previously shows a blue screen, Windows records the cause in a DMP data file. This file can be analysed with an analytic tool and thus detect the cause of the crash. BlueScreenView, the free tool displays all the available DMP data files. In case you have shifted the files, simply extract them from Windows Explorer in the BlueScreenView window. After you have selected a DMP data file, BlueScreenView lists the processes involved. If you cannot identify a process, Google search is always ready to help.

Also, the software WhoCrashed, available on [resplendence.com](http://resplendence.com), is complimentary and quick to install. Inexperienced users are served better here. In order to allow WhoCrashed to find the DMP data files, they must lie unconditionally in the path "C:\Windows\Minidump". As soon as you click on the "Analyse" button on top,



With BlueScreenView, you can detect the cause of the system crash

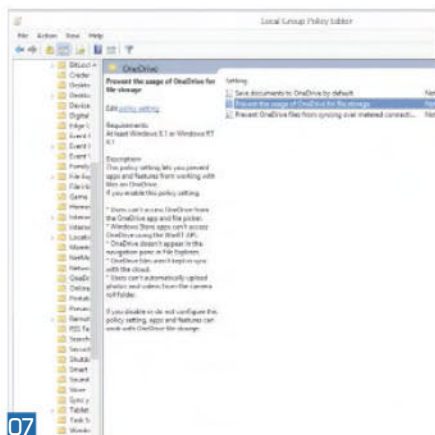


the program analyses all the available DMP data files and provides you easy-to-understand information about the faulty processes or driver.

07

## WINDOWS 8.1

**Simply disable the auto boot of the cloud service OneDrive**



07

*Auto boot of the Cloud storage can be disabled in the group policy (from Win 8.1 Pro)*

If you are using one of the advanced versions of Windows 8.1 like Pro or Enterprise, you can prevent the auto booting of the online storage OneDrive with the help of group policy. Open the group policy by pressing the [Windows]+[R] keys, type "gpedit.msc" and click on "OK". Navigate to "Computer Configuration | Administrative | Templates | Windows Components | One-Drive". Double-click on "Prevent use of OneDrive for saving the file". Select the option "Enable" and confirm with "OK". At the next restart, Windows will no longer activate the cloud storage.

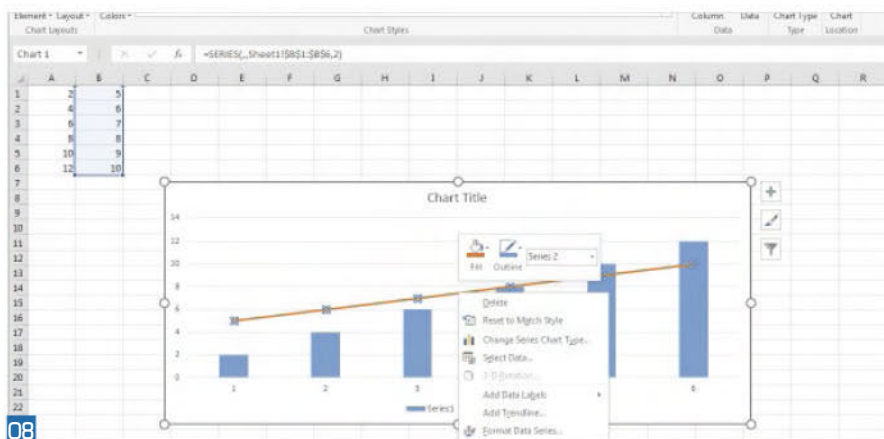
## OFFICE

08

## EXCEL

**Simply add a second Y axis to a finished graph**

Although not every graph can be equipped with a second Y axis, but for the most common forms like column and line graphs, the function already exists. Open Excel and input the dataset for your graph. Then, under "Insert", click on "Columns" and select a 2D column type. The graph is created automatically.



08

*Excel can represent the bar value as a line in a column graph*

Click on a bar value. For example, if you have marked a series of columns, right-click on them. Go to "Change series graph type..." In the opened window, select "Line", to represent the column values as lines. Mark the curves and again right-click on them. Now command "Format dataset...". At "line options" put a tick next to "Secondary axis". After that, your graph contains two Y-axes.

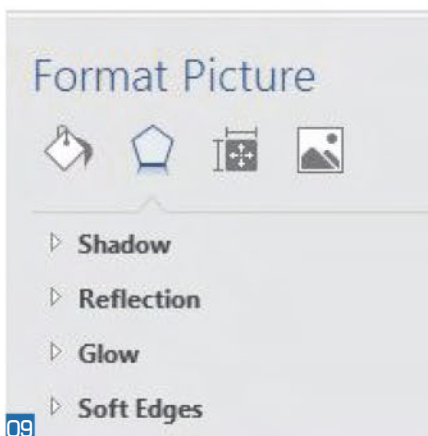
09

## WORD

**Format and edit several photos in a document simultaneously**

Editing several pictures simultaneously in a Word document saves time. In this way, you can equip several pictures with an identical border or adjust the sizes.

Click on a picture in the document and select "Picture tools" in the context menu. In the latest version of Word, this menu bar is automatically



09

*Images in Word can be edited uniformly and even parallelly*

displayed. In the "Arrange" section, go to "Text wrapping" and subsequently to "Fit." Repeat this process for all pictures, which you wish to edit in the same style.

Select all the pictures that you wish to edit by keeping the [Ctrl] key pressed. Right-click on one of them and select the desired command in the context menu, like "Format picture". Alternatively, you can click on the corresponding option in the menu bar. All changes made so far are applied to the previously selected pictures.

10

## POWERPOINT

**Save all slides of a presentation as pictures**

PowerPoint contains a function which allows you to save slides as pictures. This can be useful while forwarding it to another person. Open the presentation and navigate from "File" to the command "Save as image..." Choose the folder where you wish to save the pictures. Under "Format", you can still change the file type, if need be. Finally, confirm the process with "Save". PowerPoint will then export the slides as image files in the selected folder.

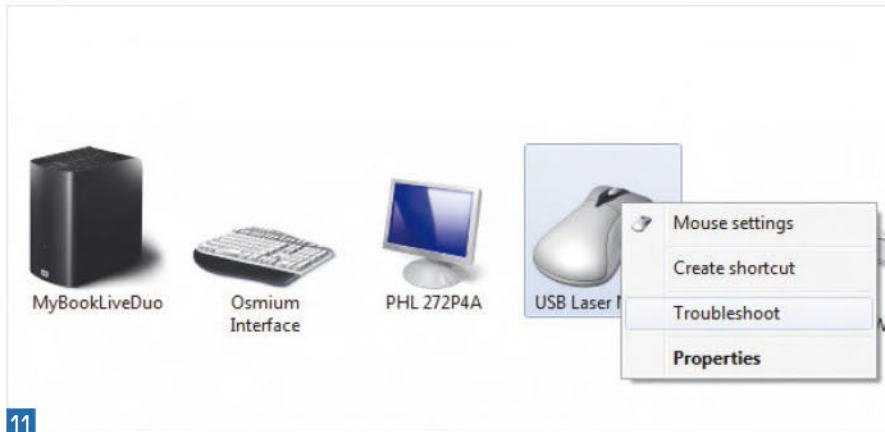
## HARDWARE

11

## MOUSE

**You can do this if your bluetooth-mouse is no longer functioning**

If your mouse is on the brink, it can be due to the device but also



11

Trouble-shooting allows Windows to detect errors and troubleshoot

Windows can be a culprit. First, check if the laser on the underside of the mouse is lighting up. If not, change the batteries. If these are still loading, remove them and insert them once again. Remove the USB stick of the Bluetooth mouse and plug it to another USB port. Make sure that you are not using a hub for USB devices. Remove all other USB devices from your PC. If possible, connect the mouse to another computer. If it does not function here as well, then it is very likely to be defective.

For the following steps, use a working mouse or the laptop touch pad. Open the Control Panel and select the category "Devices and Printers" under "Hardware and Sound". Here, search for the Bluetooth mouse and right-click on it. Select "Troubleshoot" and wait for a moment. If Windows found an error, the system will try to troubleshoot it by itself.

If this does not work, start the Device Manager. You will find the Bluetooth mouse under "Mice and other pointing devices". Right-click on the entry and select "Update driver software". If this does not help, uninstall and reinstall the mouse over the corresponding menu items.

If you own a Microsoft mouse, the in-house IntelliPoint-software helps. Open the "Run" scan with [Windows]+[R] and input the command "Mouseinfo". A mouse diagnose program starts. Here you can check and repair the connection to your Microsoft mouse.

12

## VIDEO

Is there any loss of picture quality with a ten-metre or longer HDMI cable?

In the market there are extremely expensive cables which is more than 10 meters. Must we seriously pay hundred for Ringgits for such lengths?

Quality in the case of HDMI cable means lowest possible attenuation of the signal and strongest possible screening against disturbing influences (electromagnetic isolation) from the exterior. Therefore, long cables must be clearly thicker than short standard cables as a result of the large cross-sections and screening.

Contrary to analogue picture transmission, bad quality cables will lead to a blurry image, and its impact is very easy to recognize in case of HDMI. Every smallest transmission error leads to a picture element with completely incorrect brightness and/or colour via the HDCP encryption. In regions with dark colours, this is noticeable by colour flashes; in



12

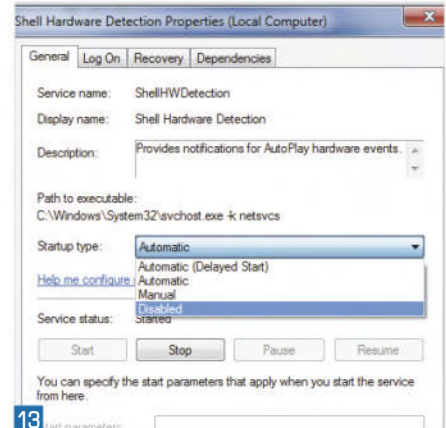
... not the price. As long as there is no distinctive image error, your current HDMI cable should suffice

light picture regions it manifests as dark grainy images. As long as you do not see these effects, the HDMI transmission is perfect.

13

## USB-STICK

Stop the annoying dialogue while plugging in the stick



13

By deactivating the Shell hardware detection, you prevent the annoying message while plugging USB sticks

While plugging in the USB stick, the "Autorun" window will appear. Here's a trick to disable that window.

Press [Windows]+[R] and enter "services.msc" in the command line. In the "Services" window, search for "Shell hardware detection" and double-click to open it. Change the startup type to "Disabled" and select "Stop" as the service status. Now click on "OK" and close the window. From now on, the "Autorun" message will not appear.

14

## PRINTER

How to find causes when the printer feeds paper incorrectly

There are several reasons why your printer feeds the paper incorrectly. **Paper:** Check if the paper is organised and lies flat without kinks or folds. No pages should be seen from the stack. Before you put the paper in the tray, adjust the stack properly and close the tray without jerky movements.

**Feeder:** Under certain circumstances, the paper feeder can be misaligned. This is evident from the guide rails of the paper. While printing with





14 Check the paper holder during vertical feeding, to prevent incorrect feeding of paper

adjustable feeder openings, the guide rails are perhaps not aligned correctly after changing the size.

**Paper insert:** The paper stack should be relatively close to the guide rail, but should not be directly come into contact with it. If the rails clamp the stack, there is a possibility that the paper is fed incorrectly or not fed at all.

**Vertical in-feed:** If your printer has a vertical paper feed, you check the fixed paper holder - even this should be affixed vertically, in order to prevent incorrect in-feed.

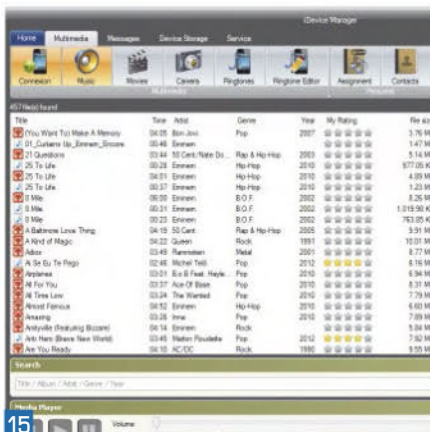
**Rollers:** The rollers can be worn-out and smudged differently, thus ensuring a sloping feeding. Clean the rollers or replace them.

15

### IPAD

Use the iPad as an external hard disk

You can use your iPad as an external hard disk with a complimentary tool.



15 The free iDevice Manager allows data exchange between iPad and PC

Install the iDevice Manager. Then, connect your iPad to the computer and start the tool. At the top, switch the category to "Data storage device", and check out the "Storage" folder to the left. You can store all desired data in this folder. Click on the "Transfer" button below and select the option "Files" or "Folder". Then, you can select the desired files or folder on your PC and transfer them to the iPad by pressing the "Open" button.

If you wish to transfer files again to the computer, simply mark the folder with the mouse and click on the "Download" button.

16

### POWER SUPPLY UNIT

Watch out for a humming power supply unit



16 Humming power supply units are hazardous and should be replaced quickly

If the power supply unit hums, it can be considered as a defect in some cases. We suggest that you use the power supply unit under strict observation. Ensure that the cables

are intact and correctly connected. As soon as the power supply unit heats up considerably, you should disconnect it from power and replace it as soon as possible. While using a humming power supply unit, you must take care that no magnetic objects like hard disks are present nearby. You risk a defect and possibly even data loss. Sooner or later, you need to get a replacement for the power supply unit.

### PHOTOGRAPHY

17

### SUBJECT

Use our tips and put sunset in the limelight

It may be a cliché, but the sunset is still the most popular photo subject. With the right settings and a good picture composition, you can capture the natural spectacle. Whenever possible, use a tripod. This way you achieve an optimum image quality and without blurring your photo. Switch off the camera's image stabilizer, since it is not required on a tripod. Its electronics could even provide extra blurring in the image. For ISO, select the lowest possible value (in most cases, 50 or 100).

Select the manual mode in the camera, in order to setup the aperture and exposure time on your own. In order to obtain a consistent acuity in the image, you should increase the focal ratio. The value f/8 or higher is optimum. Afterwards, set the exposure time as per your desires. Preferably, use the Live-View mode of the camera. Here, you can see the settings



17 If the camera leans on the tripod, you can concentrate fully on the image design during sunset

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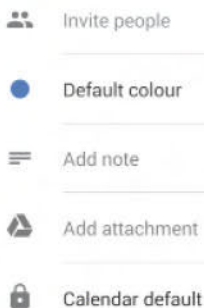
change on the screen in real time.

Usually, it is better to underexpose the image. Although the landscape is very dark, the colours are optimally reproduced. Take pictures according to the rule of thirds and allow the sky to be the bigger part of the picture – if good composition permits that is.

## MOBILE

## ANDROID

18

**Integrate data files from Google Drive in the Android calendar**

*At the very bottom of the calendar management, you will find a button for integrating files*

In order to always have the same necessary documents at hand during an appointment, you can store your file on Google Drive and then link it directly to the calendar.

Open the Google calendar app on your smartphone or tablet and tap on the red and round plus symbol at the right bottom, to create a new appointment. In the next window, you will find the "Add attachment" entry at the extreme bottom. After you have tipped it in, an overview of your Google Drive account opens after a short waiting time. Mark a random file and tap on "Select" to incorporate it in the calendar.

**Note:** Till date, the link works only with such appointments that you have created in Google Calendar.

19

## WINDOWS PHONE

**Setup a child lock on the Smartphone**

Smartphones attract children like a magnet and they love to play with it.



*Activate "Kids corner" on your Windows phone, to lock the contents from the offspring*

Moreover, the number of apps offered for kids is ever increasing by the day. While making use of the telephone, they can accidentally adjust something or buy unintended apps. You can prevent this in a Windows phone. Open "Kids corner" in settings. After you have confirmed the function, you can set approved games, music, videos or other applications for your kid. In order to restrict the access to the smartphone, set a password for the lock screen.

If you yourself do not wish to activate the kids corner, you should anyway ensure that a password is required - at least while buying apps. Open "Settings", swipe to the right and select "Wallet". Activate the "Wallet PIN". Now put a tick against "Use wallet PIN for protection while buying music, apps and in-app contents".

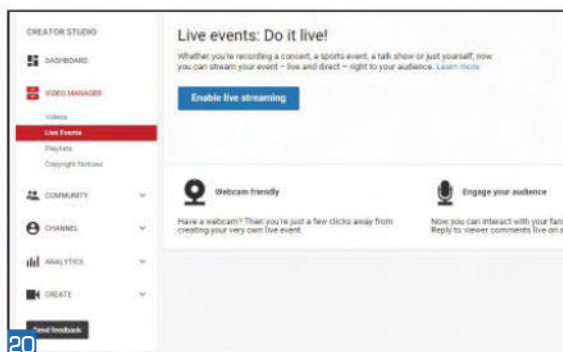
## SOCIAL NETWORKS

20

## YOUTUBE

**Create your own Livestream and transmit the webcam image**

A nice, but largely unknown function of



*Just like YouNow, you can also send live on YouTube*

YouTube is Livestream, with which you can release the recordings from your webcam. Log on to YouTube, click on the profile picture and select "YouTube Studio". This gives you an overview of the functions of the service. On the left side, select "Video manager | Live events" and click on "Activate live streaming". If your YouTube account is still not verified, you must get through with it now. Subsequently, open the page "Live events" and activate the Livestream by clicking on the button. Now, you can transfer the image on your webcam or any other camera to the internet and send the link to the stream to your friends.

21

## FACEBOOK

**Delete uploaded images forever from the network**

You can easily delete images which you have shared on Facebook with just a few steps. However, they are still haven't completely disappeared from your account. You can delete them fully by removing the photos from your timeline. To do this, open your profile page and select "Photos" from the menu bar. Switch to "My Photos". If you go to an image from there, a button with a pen appears on the upper right corner. After clicking on it once, you will see the option "Delete this photo". Then as soon as you click on "Confirm", the photo is eliminated from your profile. Repeat this process for all other images.

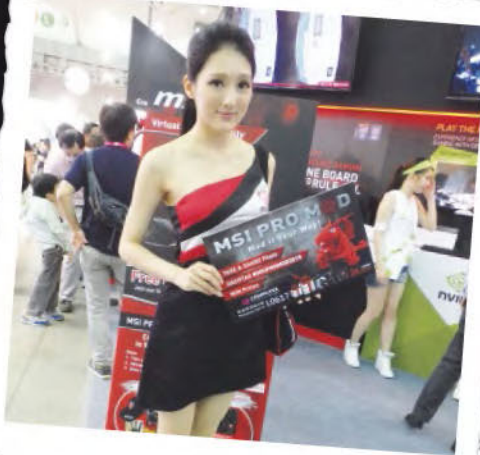
Photos in which you have been tagged and the ones which are not uploaded by you can be found under the "Photos of you" category. To remove the tag, follow the same procedure as the deletion of photos.

If an image has not been uploaded by you, it does not appear on your timeline and you cannot delete it. If you are seen in another person's photo, you can only remove the tag (if available). Furthermore, you can always request the owner to take down the image. 🚫



# Girls of COMPUTEX 2015

While we walked around the tradeshow grounds to bring you the best technology in our COMPUTEX coverage, we also managed to capture the bevy of beauties we saw while traversing Nangang Convention Centre and TICC. We share here some of the girls for COMPUTEX



# The Weird and Wonderful

We also saw a few wonderful things in COMPUTEX – as well as several oddities that bear to be mentioned here



A sample 3D Print on display



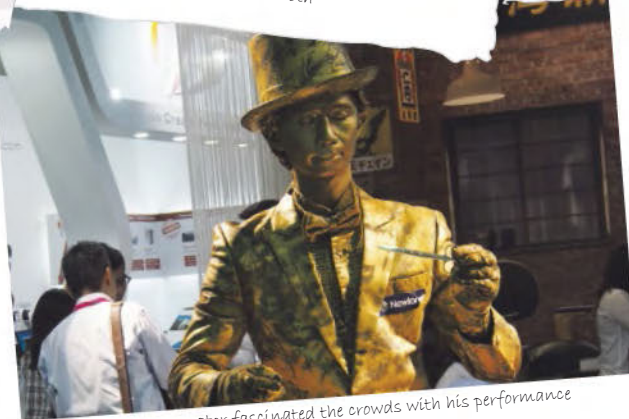
One of the many 3D Printers set up in COMPUTEX



An interesting in-chassis decoration at one of the many PC case manufacturers booth



When they say 'Learn until you go up the wall' we didn't thought it was a literal saying...



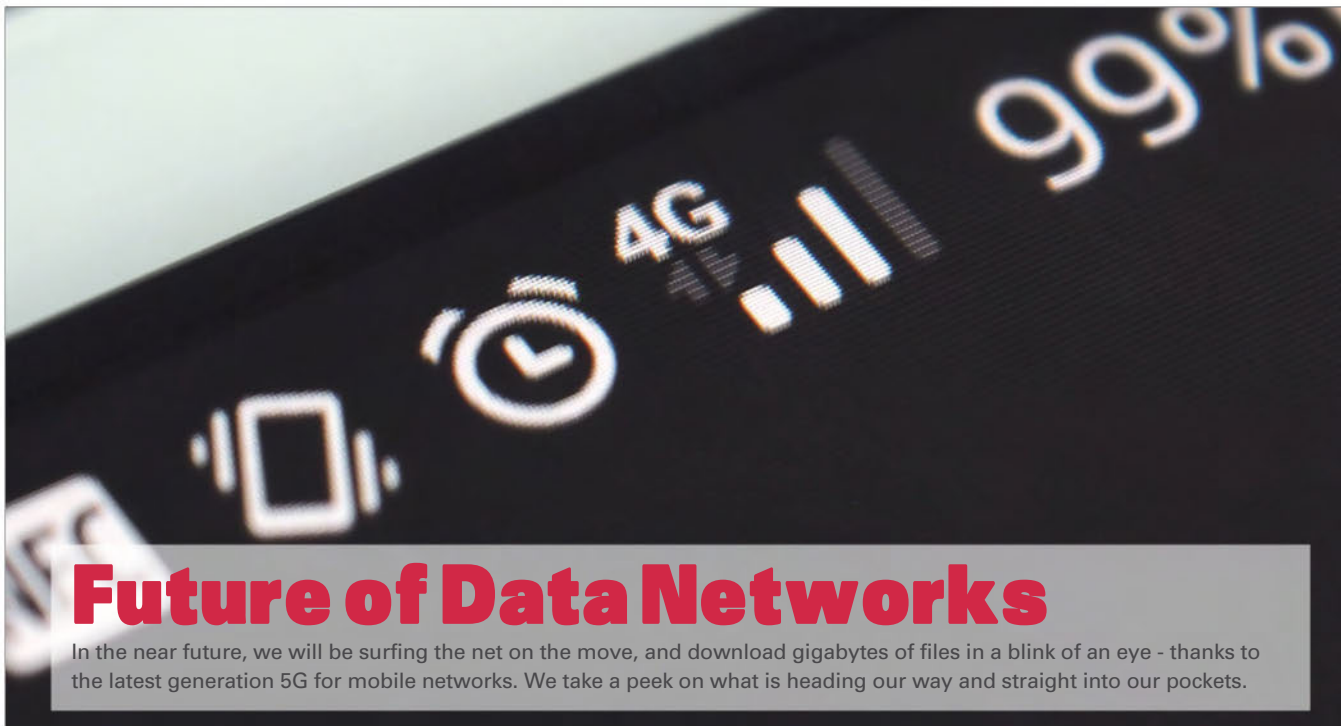
This robot impersonator fascinated the crowds with his performance



A random mascot promoting a new Point of Sale system

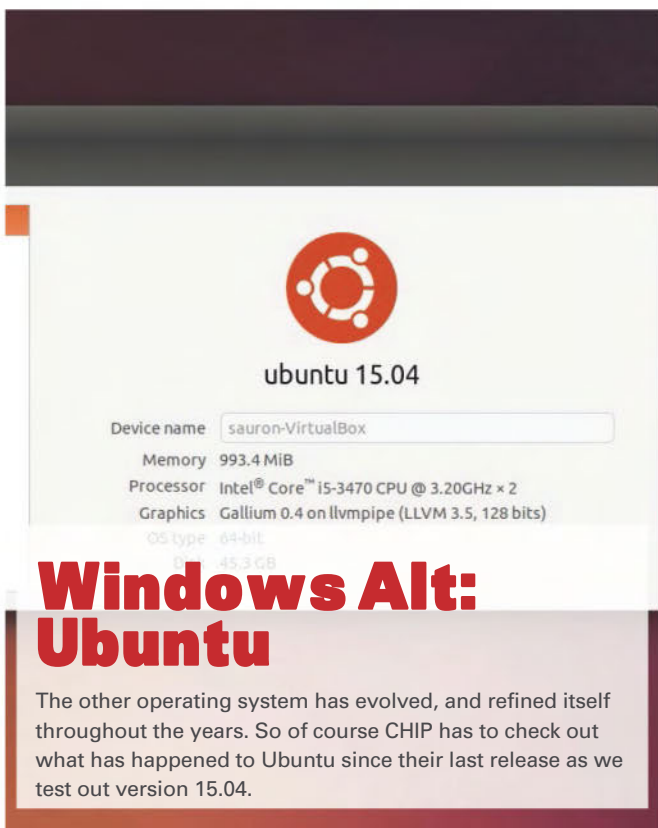


# Next Issue



## Future of Data Networks

In the near future, we will be surfing the net on the move, and download gigabytes of files in a blink of an eye - thanks to the latest generation 5G for mobile networks. We take a peek on what is heading our way and straight into our pockets.



## Windows Alt: Ubuntu

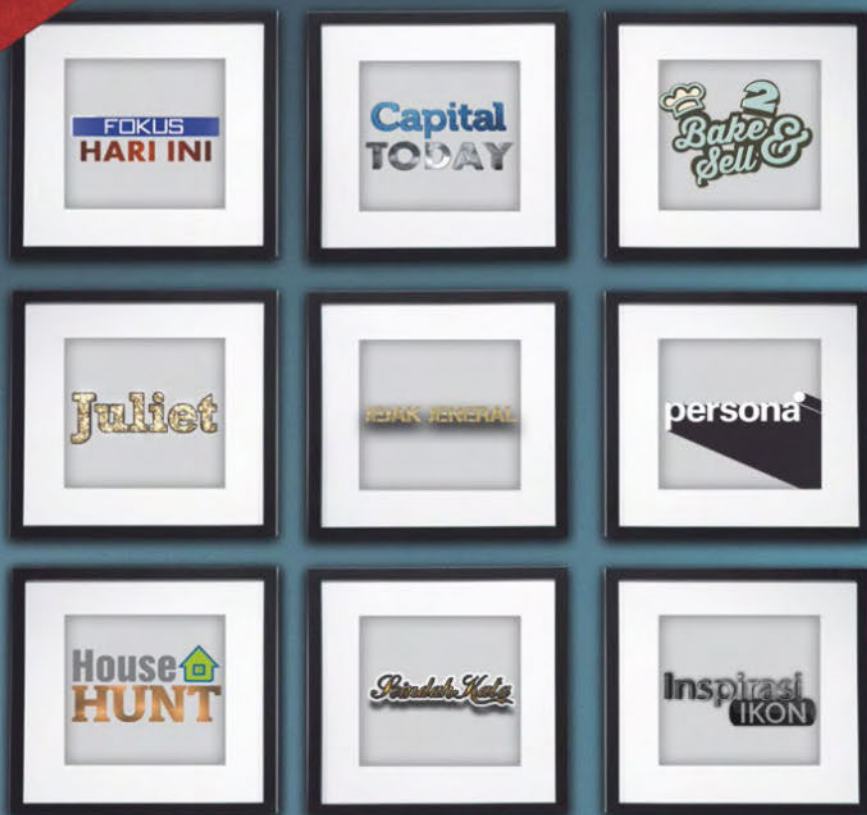
The other operating system has evolved, and refined itself throughout the years. So of course CHIP has to check out what has happened to Ubuntu since their last release as we test out version 15.04.



## Super protected email keys

PGP keys can be made potentially not secure as hackers and unscrupulous people try their very best to take over data centres around the world. CHIP will give you a few tips on how to keep one step ahead from these crooks.

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